

AO 120 (Rev. 08/10)

TO: Mail Stop 8 Director of the U.S. Patent and Trademark Office P.O. Box 1450 Alexandria, VA 22313-1450	REPORT ON THE FILING OR DETERMINATION OF AN ACTION REGARDING A PATENT OR TRADEMARK
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In Compliance with 35 U.S.C. § 290 and/or 15 U.S.C. § 1116 you are hereby advised that a court action has been filed in the U.S. District Court Eastern District of Texas, Marshall Division on the following

☐ Trademarks or ☒ Patents. (☐ the patent action involves 35 U.S.C. § 292.):

DOCKET NO. 2:19-cv-372	DATE FILED 11/14/2019	U.S. DISTRICT COURT Eastern District of Texas, Marshall Division
PLAINTIFF SpaceTime3D, Inc.		DEFENDANT Samsung Electronics Co., Ltd. and Samsung Electronics America, Inc.
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
1 8,881,048 B2	11/4/2014	SpaceTime3D, Inc.
2 9,304,654 B2	4/5/2016	SpaceTime3D, Inc.
3 9,696,868 B2	7/4/2017	SpaceTime3D, Inc.
4		
5		

In the above—entitled case, the following patent(s)/ trademark(s) have been included:

DATE INCLUDED	INCLUDED BY ☐ Amendment ☐ Answer ☐ Cross Bill ☐ Other Pleading	
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
1		
2		
3		
4		
5		

In the above—entitled case, the following decision has been rendered or judgement issued:

DECISION/JUDGEMENT

CLERK	(BY) DEPUTY CLERK	DATE
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Copy 1—Upon initiation of action, mail this copy to Director Copy 3—Upon termination of action, mail this copy to Director
Copy 2—Upon filing document adding patent(s), mail this copy to Director Copy 4—Case file copy



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
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APPLICATION NO.	ISSUE DATE	PATENT NO.	ATTORNEY DOCKET NO.	CONFIRMATION NO.
14/503,142	04/05/2016	9304654	747121-3	5089

125600 7590 03/16/2016
Fitzsimmons IP Law
14739 S. Vermont Ave.
Gardena, CA 90247

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 84 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):

Ezra Eddie Bakhsh, New York, NY;

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 USA offers tremendous resources and advantages for those who invest and manufacture goods here. Through SelectUSA, our nation works to encourage and facilitate business investment. To learn more about why the USA is the best country in the world to develop technology, manufacture products, and grow your business, visit SelectUSA.gov.



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APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
14/503,142	09/30/2014	Ezra Eddie Bakhsh	747121-3

125600
Fitzsimmons IP Law
14739 S. Vermont Ave.
Gardena, CA 90247

CONFIRMATION NO. 5089
POA ACCEPTANCE LETTER



Date Mailed: 02/23/2016

NOTICE OF ACCEPTANCE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 02/11/2016.

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.

/yfeferra/

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

EPAS ID: PAT3751808

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
E. EDDIE BAKHASH	02/22/2016
RECEIVING PARTY DATA	
Name:	SPACETIME3D, INC.
Street Address:	576 FIFTH AVE.
Internal Address:	SUITE 1102
City:	NEW YORK
State/Country:	NEW YORK
Postal Code:	10036
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	14503142
CORRESPONDENCE DATA	
Fax Number:	
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i>	
Phone:	213-500-1178
Email:	todd@fitzplaw.com
Correspondent Name:	TODD FITZSIMMONS
Address Line 1:	14739 S. VERMONT AVE.
Address Line 4:	GARDENA, CALIFORNIA 90247
ATTORNEY DOCKET NUMBER:	747121-3
NAME OF SUBMITTER:	TODD FITZSIMMONS
SIGNATURE:	/todd fitzsimmons/
DATE SIGNED:	02/23/2016
	This document serves as an Oath/Declaration (37 CFR 1.63).
Total Attachments: 1	
source=Assignment_Filed#page1.tif	

PATENT ASSIGNMENT

WHEREAS, **E. EDDIE BAKHASH**, an individual ("Assignor"), residing at 2335 Waverley Street, Palo Alto, CA 94301, has made certain new and useful inventions in **SYSTEM AND METHOD FOR DISPLAYING A TIMELINE ASSOCIATED WITH A PLURALITY OF APPLICATIONS**, and has disclosed the same in an application for Letters Patent of the United States, said application having been filed with the U.S. Patent and Trademark Office on September 30, 2014 as Serial No. 14/503,142 ("the '142 Application"); and

WHEREAS, **SPACETIME3D, INC.** ("Assignee"), a corporation having a place of business at 576 Fifth Avenue, Suite 1102, New York, NY 10036, wishes to acquire all of the rights in said inventions from Assignor;

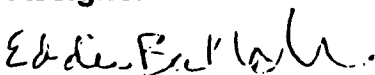
NOW, THEREFORE, Assignor, by these presents, for good and valuable consideration does sell, assign and transfer unto Assignee any right, title, and interest in and to the '142 Application and any continuation or divisionals thereof, throughout the world, that Assignor has, including all priority rights arising from the '142 Patent; the same to be held and enjoyed by Assignee for its own use and behalf, and for its legal representatives and assigns, as fully and entirely as the same would have been held by Assignor has this assignment and same not been made, including, without limitations, the right to bring suit and recover damages for any infringement thereof that has occurred prior to the date hereof.

FURTHERMORE, Assignor hereby covenants that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment.

Assignor further agrees, upon request of and at the expense of Assignee, to promptly execute without further consideration such further lawful documents as may reasonably be required for the rights conveyed herein to vest to Assignee.

Assignor

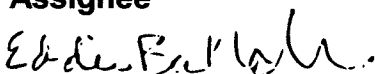
Date: 2-22-16



E. Eddie Bakhsh

Assignee

Date: 2-22-16



E. Eddie Bakhsh, President of Spacetime3D, Inc.



UNITED STATES PATENT AND TRADEMARK OFFICE

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United States Patent and Trademark Office
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NOTICE OF ALLOWANCE AND FEE(S) DUE

125600 7590 02/22/2016
Fitzsimmons IP Law
14739 S. Vermont Ave.
Gardena, CA 90247

EXAMINER

LEE, TING ZHOU

ART UNIT

PAPER NUMBER

2173

DATE MAILED: 02/22/2016

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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14/503,142

09/30/2014

Ezra Eddie Bakhsh

747121-3

5089

TITLE OF INVENTION: System and Method for Displaying a Timeline Associated With a Plurality of Applications

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	SMALL	\$480	\$0	\$0	\$480	05/23/2016

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: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

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)

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.

125600 7590 02/22/2016
Fitzsimmons IP Law
14739 S. Vermont Ave.
Gardena, CA 90247

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.
14/503,142	09/30/2014	Ezra Eddie Bakhsh	747121-3	5089

TITLE OF INVENTION: System and Method for Displaying a Timeline Associated With a Plurality of Applications

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	SMALL	\$480	\$0	\$0	\$480	05/23/2016

EXAMINER	ART UNIT	CLASS-SUBCLASS
LEE, TING ZHOU	2173	715-782000

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, 1 _____ (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. 2 _____ 3 _____
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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).
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5. Change in Entity Status (from status indicated above)

- ☐ Applicant certifying micro entity status. See 37 CFR 1.29
- ☐ Applicant asserting small entity status. See 37 CFR 1.27
- ☐ Applicant changing to regular undiscounted fee status.

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.

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.

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. _____



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
14/503,142	09/30/2014	Ezra Eddie Bakhsh	747121-3	5089
125600	7590	02/22/2016	EXAMINER	
Fitzsimmons IP Law 14739 S. Vermont Ave. Gardena, CA 90247			LEE, TING ZHOU	
			ART UNIT	PAPER NUMBER
			2173	
DATE MAILED: 02/22/2016				

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. 14/503,142	Applicant(s) BAKHASH, EZRA EDDIE	
	Examiner TING LEE	Art Unit 2173	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 09/30/2014.
☐ 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 67-73 and 75-86. 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 _____ 3. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material 4. ☒ Interview Summary (PTO-413), Paper No./Mail Date <u>02/02/2016</u> .	5. ☒ Examiner's Amendment/Comment 6. ☒ Examiner's Statement of Reasons for Allowance 7. ☐ Other _____.
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/TING LEE/ Primary Examiner, Art Unit 2173	
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DETAILED ACTION

1. The present application is being examined under the pre-AIA first to invent provisions.
2. This application is a continuation of U.S. Patent Application No. 12/751,879 (U.S. Patent 8,881,048), filed on 03/31/2010, which is a continuation of U.S. Patent Application No. 11/531,676 (U.S. Patent 7,735,018), filed on 09/13/2006, which claims benefit of U.S. Provisional Application No. 60/717,019, filed on 09/13/2005.
3. The preliminary amendment filed on 09/30/2014 has been received and entered. The applicant has cancelled claims 1-66 and added new claims 67-88. Claims 67-88 as amended are pending in the application.

EXAMINER'S AMENDMENT

4. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mr. Todd Fitzsimmons (Reg. No. 44,683) on 01/28/2016.

5. The claims are amended as follows:

Claim 67. (Currently amended) A method for displaying a timeline associated with a plurality of applications and allowing a user to modify an output of one of said plurality of applications by interacting with said timeline, comprising:

receiving a plurality of inputs from a user, said plurality of inputs comprising at least first, second, and third inputs;

opening said plurality of applications in response to said plurality of inputs, said plurality of applications comprising at least first, second, and third applications, wherein each one of said plurality of applications is configured to (i) generate an object having application-specific data, (ii) display said object on a display device, and (iii) allow said user to modify at least a portion of said application-specific data by interacting with said object; and

displaying on said display device said timeline associated with said plurality of applications, comprising;

generating a plurality of images, said plurality of images comprising at least first, second, and third images, wherein said first image is an image of at least a portion of a first object generated by said first application and having first application-specific data, said second image is an image of at least a portion of a second object generated by said second application and having second application-specific data, and said third image is an image of at least a portion of a third object generated by said third application and having ~~third-application~~ third application-specific data; and

displaying said plurality of images in a three-dimensional space on said display device in an order based on a last time that said user one of (i) opened said first application and interacted with said first object, (ii) opened said second application and interacted with said second object, and (iii) opened said third application and interacted with said third object, such that a first one in said order is displayed in a foreground of said three-dimensional space, a second one in said order is displayed in a background of said three-dimensional space, behind

Art Unit: 2173

at least said first one in said order, and a third one in said order is displayed in a background of said three-dimensional space, behind at least said second one in said order; and

allowing said user to modify at least a portion of one of said first, second, and third application-specific data, comprising:

receiving a first interaction from said user with one of said plurality of images corresponding to one of said plurality of applications;

replacing said plurality of images within said three-dimensional space with one of said first, second, and third objects corresponding to said one of said plurality of applications within a two-dimensional space in response to said first interaction;

receiving a second interaction by said user with said one of said first, second, and third objects within said two-dimensional space; and

modifying said one of said first, second, and third application-specific data in response to said second interaction.

Claim 74. (Cancelled)

Claim 77. (Currently amended) A system for displaying a timeline associated with a plurality of applications and allowing a user to modify an output of one of said plurality of applications by interacting with said timeline, comprising:

a display device;

at least one input device;

at least one processor operatively coupled to said display device and said at least one input device; and

a memory device comprising executable code for:

receiving a plurality of inputs from said at least one input device, said plurality of inputs comprising at least first, second, and third inputs;

Art Unit: 2173

opening said plurality of applications in response to said plurality of inputs, said plurality of applications comprising at least first, second, and third applications, wherein each one of said plurality of applications is configured to (i) generate an object having application-specific data, (ii) display said object on said display device, and (iii) allow said user to modify at least a portion of said application-specific data by interacting with said object; and

displaying on said display device said timeline associated with said plurality of applications, comprising;

generating a plurality of images, said plurality of images comprising at least first, second, and third images, wherein said first image is an image of at least a portion of a first object generated by said first application and having first application-specific data, said second image is an image of at least a portion of a second object generated by said second application and having second application-specific data, and said third image is an image of at least a portion of a third object generated by said third application and having ~~third application~~ third application-specific data; and

displaying said plurality of images within a three-dimensional space on said display device in an order based on a last time that said at least one processor received (i) said first input and a last interaction with said first object, (ii) said second input and a last interaction with said second object, and (iii) said third input and a last interaction with said third object, such that a first one in said order is displayed in a foreground of said three-dimensional space, and second and third ones in said order are displayed in a background of said three-dimensional space; and

allowing said user to modify at least a portion of one of said first, second, and third application-specific data, comprising:

receiving a fourth input from said at least one input device, said fourth input interacting with one of said plurality of images corresponding to one of said plurality of applications;

replacing said plurality of images within said three-dimensional space with one of said first, second, and third objects corresponding to said one of said plurality of applications within a two-dimensional space in response to said fourth input;

receiving a fifth input from said at least one input device, said fifth input interacting with said one of said first, second, and third objects within said two-dimensional space; and

modifying said one of said first, second, and third application-specific data in response to said fifth input.

Claim 83. (Currently amended) The system of Claim 77, wherein said step of displaying said plurality of images within said three-dimensional space further comprises displaying said ~~plurality of images in a three-dimensional space, such that a first one of said plurality of images is displayed in a foreground of said display device and said second and third ones of said plurality of images is displayed in a background of said display device~~ second one in said order behind at least said first one in said order, and displaying said third one in said order behind at least said second one in said order.

Claim 86. (Currently amended) A method for displaying information on a plurality of applications and allowing a user to modify an output of one of said plurality of applications by interacting with said information, comprising:

receiving a plurality of inputs from a user, said plurality of inputs comprising at least first, second, and third inputs;

opening said plurality of applications in response to said plurality of inputs, said plurality of applications comprising at least first, second, and third applications, wherein each one of said plurality of applications is configured to (i) generate an output having application-specific data, (ii) display said output on a display device, and (iii) allow said

Art Unit: 2173

user to modify at least a portion of said application-specific data by interacting with said output; and

displaying on said display device said information on said plurality of applications, comprising;

generating a plurality of images, said plurality of images comprising at least first, second, and third images, wherein said first image is an image of at least a portion of an output generated by said first application and having first application-specific data, said second image is an image of at least a portion of an output generated by said second application and having second application-specific data, and said third image is an image of at least a portion of an output generated by said third application and having ~~third application~~ third application-specific data; and

displaying said plurality of images within a three-dimensional space on said display device in an order that said application-specific data associated with each one of said plurality of applications was displayed on said display device, wherein a first one in said order is displayed in a foreground, a second one in said order is displayed in a background behind at least said first one in said order, and a third one in said order is displayed in a background behind at least said second one in said order; and

allowing said user to modify at least a portion of one of said first, second, and third application-specific data, comprising:

receiving a first interaction from said user with one of said plurality of images corresponding to one of said plurality of applications;

replacing said plurality of images within said three-dimensional space with a particular output within a two-dimensional space, said particular output corresponding to said one of said plurality of applications in response to said first interaction;

receiving a second interaction by said user with said particular output within said two-dimensional space; and

Art Unit: 2173

modifying said one of said first, second, and third application-specific data in response to said second interaction.

Allowable Subject Matter

6. Claims 67-73 and 75-86 are allowed.

7. The following is an examiner's statement of reasons for allowance: The present invention teaches converting outputs of a plurality of applications into a plurality of images displayed in a three-dimensional space, replacing the plurality of images with the output of the first application in a two-dimensional space in response to first user interaction with the first image, and modifying the first application specific data in response to second user interaction with the output. The claims are allowable over the prior art in view of the examiner's amendment and the applicant's remarks filed on 09/30/2014.

8. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to TING LEE whose telephone number is (571) 272-4058. The examiner can normally be reached on Tuesday 9am-3pm, Thursday 9am-3pm and Friday 4pm-8pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kieu Vu can be reached on (571) 272-4057. 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.

/TING LEE/
Primary Examiner, Art Unit 2173

Notice of References Cited	Application/Control No. 14/503,142		Applicant(s)/Patent Under Reexamination BAKHASH, EZRA EDDIE	
	Examiner TING LEE		Art Unit 2173	Page 1 of 1

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*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
*	A	US-6,768,999	07-2004	Prager et al.	707/999.002
*	B	US-6,725,427	04-2004	Freeman et al.	715/273
*	C	US-6,577,330	06-2003	Tsuda et al.	715/782
*	D	US-6,499,029	12-2002	Kurapati et al.	707/750
*	E	US-6,121,969	09-2000	Jain et al.	715/850
*	F	US-5,428,735	06-1995	Kahl et al.	715/839
*	G	US-5,319,387	06-1994	Yoshikawa, Kouhei	345/179
*	H	US-2004/0268451	12-2004	Robbin et al.	999/999.999
*	I	US-2003/0179231	09-2003	Kamiwada et al.	345/757
*	J	US-2003/0164827	09-2003	Gottesman et al.	345/419
*	K	US-2002/0033848	03-2002	Sciammarella et al.	345/838
*	L	US-2001/0050687	12-2001	Iida et al.	345/581
	M	US-			

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*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	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.



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BIB DATA SHEET

CONFIRMATION NO. 5089

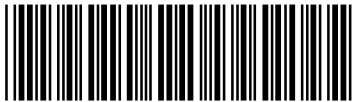
SERIAL NUMBER 14/503,142	FILING or 371(c) DATE 09/30/2014 RULE	CLASS 715	GROUP ART UNIT 2173	ATTORNEY DOCKET NO. 747121-3		
APPLICANTS INVENTORS Ezra Eddie Bakhsh, New York, NY; ** CONTINUING DATA ***** This application is a CON of 12/751,879 03/31/2010 PAT 8881048 which is a CON of 11/531,676 09/13/2006 PAT 7735018 which claims benefit of 60/717,019 09/13/2005 ** FOREIGN APPLICATIONS ***** ** IF REQUIRED, FOREIGN FILING LICENSE GRANTED *** SMALL ENTITY ** 10/06/2014						
Foreign Priority claimed ☐ Yes ☒ No 35 USC 119(a-d) conditions met ☐ Yes ☒ No Verified and Acknowledged <u>/TING ZHOU LEE/</u> Examiner's Signature		☐ Met after Allowance Initials	STATE OR COUNTRY NY	SHEETS DRAWINGS 30	TOTAL CLAIMS 20	INDEPENDENT CLAIMS 3
ADDRESS Fitzsimmons IP Law 14739 S. Vermont Ave. Gardena, CA 90247 UNITED STATES						
TITLE System and Method for Displaying a Timeline Associated With a Plurality of Applications						
FILING FEE RECEIVED 800	FEES: Authority has been given in Paper No. _____ to charge/credit DEPOSIT ACCOUNT No. _____ for following:		☐ All Fees ☐ 1.16 Fees (Filing) ☐ 1.17 Fees (Processing Ext. of time) ☐ 1.18 Fees (Issue) ☐ Other _____ ☐ Credit			

Issue Classification 	Application/Control No. 14503142	Applicant(s)/Patent Under Reexamination BAKHASH, EZRA EDDIE	
	Examiner TING LEE	Art Unit 2173	

CPC						
Symbol					Type	Version
G06F		3	/	04815	F	2013-01-01
G06F		17	/	30572	I	2013-01-01
G06F		17	/	30864	I	2013-01-01
G06F		17	/	30873	I	2013-01-01
G06T		15	/	20	I	2013-01-01
G11B		27	/	34	I	2013-01-01
G06F		3	/	04817	I	2013-01-01
G06F		3	/	0482	I	2013-01-01
G06F		3	/	04845	I	2013-01-01
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CPC Combination Sets				
Symbol	Type	Set	Ranking	Version

NONE (Assistant Examiner) _____ (Date) _____		Total Claims Allowed: 19	
/TING LEE/ Primary Examiner.Art Unit 2173 (Primary Examiner) _____ (Date) _____		O.G. Print Claim(s) 19	O.G. Print Figure 17B

Issue Classification 	Application/Control No. 14503142	Applicant(s)/Patent Under Reexamination BAKHASH, EZRA EDDIE
	Examiner TING LEE	Art Unit 2173

☐ Claims renumbered in the same order as presented by applicant															
☐ CPA															
☒ T.D.															
☐ R.1.47															
Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original
1	67	17	84												
2	68	18	85												
3	69	19	86												
4	70														
5	71														
6	72														
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12	79														
13	80														
14	81														
15	82														
16	83														

NONE		Total Claims Allowed:	
(Assistant Examiner)	(Date)	19	
/TING LEE/ Primary Examiner.Art Unit 2173	02/02/2016	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	19	17B

EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	12	("20010050687" "20020033848" "20030164827" "20030179231" "20040268451" "5319387" "5428735" "6121969" "6499029" "6577330" "6725427" "6768999").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2016/02/02 10:52
L3	34	("5428735").URPN.	USPAT	OR	OFF	2016/02/02 10:53
L4	6	("5157783" "5175814" "5263167" "5265014" "5265246" "5312478").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2016/02/02 10:53
L5	207	("2002/0033848").URPN.	USPAT	OR	OFF	2016/02/02 10:54
L6	21	("2003/0164827").URPN.	USPAT	OR	OFF	2016/02/02 10:54
L7	10	("2003/0179231").URPN.	USPAT	OR	OFF	2016/02/02 10:54
L8	17	("20010050687" "20020046212" "20020103781" "20020103911" "20030164827" "20030179231" "20070070066" "5926116" "6121969" "6173239" "6396475" "6480857" "6577330" "6978295" "7051291" "7096233" "7533079").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2016/02/02 10:54
L9	1	("7698387").URPN.	USPAT	OR	OFF	2016/02/02 10:54
L10	10	("5867494" "5867665" "5913024" "5918018" "6006227" "6240429" "6243724" "6466237" "6523048" "6638313").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2016/02/02 10:55
L11	158	("6768999").URPN.	USPAT	OR	OFF	2016/02/02 10:55
L12	25	("5060135" "5063495" "5140676" "5150410" "5159669" "5241671" "5247437" "5283864" "5287448" "5297032" "5402526" "5430710" "5448729" "5530859" "5535063" "5589892" "5613134" "5616876" "5625818" "5649182" "5701582" "5835129" "5890177" "5912668" "6243724").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2016/02/02 10:55
L13	106	("6725427").URPN.	USPAT	OR	OFF	2016/02/02 10:55
L14	6	("5621906" "5678015" "5745109" "5754809" "5880733" "5977973").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2016/02/02 10:55
L15	210	("6577330").URPN.	USPAT	OR	OFF	2016/02/02

						10:55
L16	149	("6121969").URPN.	USPAT	OR	OFF	2016/02/02 10:56
L17	6	("5579471" "5636350" "5751286" "5847708" "5886698" "5893095").PN.	US- PGPUB; USPAT; USOCR	OR	OFF	2016/02/02 10:56
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L19	13	("20010050687" "20020033848" "20030164827" "20030179231" "20040268451" "20070043700" "5319387" "5428735" "6121969" "6499029" "6577330" "6725427" "6768999").PN.	US- PGPUB; USPAT; USOCR	OR	OFF	2016/02/02 10:56
L20	75	("7735018").URPN.	USPAT	OR	OFF	2016/02/02 10:56
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L22	0	bakhash-ezra.in.	US- PGPUB; USPAT; USOCR	OR	ON	2016/02/02 10:57
L23	0	ezra-bakhash.in.	US- PGPUB; USPAT; USOCR	OR	ON	2016/02/02 10:58
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L26	44	((replac\$6) with (image picture thumbnail icon) with (application web page site) with (("2" two) near dimension\$2)	US- PGPUB; USPAT; USOCR	OR	ON	2016/02/02 11:00
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L29	0	26 and 27	US- PGPUB; USPAT; USOCR	OR	ON	2016/02/02 11:00
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L35	302	715/782.ccls.	US- PGPUB; USPAT; USOCR	OR	ON	2016/02/02 11:06
L36	2576	715/781.ccls.	US- PGPUB; USPAT; USOCR	OR	ON	2016/02/02 11:06
L37	5536	715/764.ccls.	US- PGPUB; USPAT; USOCR	OR	ON	2016/02/02 11:06
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L46	687	G06F3/04815	US- PGPUB; USPAT; USOCR	OR	ON	2016/02/02 11:18
L47	2055	G06F3/04817	US- PGPUB; USPAT; USOCR	OR	ON	2016/02/02 11:18
L48	3903	G06F3/0482	US- PGPUB;	OR	ON	2016/02/02 11:18

			USPAT; USOCR			
L49	559	G06F3/0483	US- PGPUB; USPAT; USOCR	OR	ON	2016/02/02 11:18
L50	967	G06F3/04845	US- PGPUB; USPAT; USOCR	OR	ON	2016/02/02 11:18
L51	497	G11B27/34	US- PGPUB; USPAT; USOCR	OR	ON	2016/02/02 11:18
L52	147	G06F17/30572	US- PGPUB; USPAT; USOCR	OR	ON	2016/02/02 11:18
L53	3068	G06F17/30864	US- PGPUB; USPAT; USOCR	OR	ON	2016/02/02 11:18
L54	255	G06F17/30873	US- PGPUB; USPAT; USOCR	OR	ON	2016/02/02 11:18
L55	299	G06T15/04	US- PGPUB; USPAT; USOCR	OR	ON	2016/02/02 11:18
L56	818	G06T15/20	US- PGPUB; USPAT; USOCR	OR	ON	2016/02/02 11:18
L57	39	(45 46 47 48 49 50 51 52 53 54 55 56) and 32	US- PGPUB; USPAT; USOCR	OR	ON	2016/02/02 11:20
L58	105	(45 46 47 48 49 50 51 52 53 54 55 56) and 33	US- PGPUB; USPAT; USOCR	OR	ON	2016/02/02 11:20
L59	3	57 and 58	US- PGPUB; USPAT; USOCR	OR	ON	2016/02/02 11:20
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S19	3	("6768999" "5428735" "20030164827").pn.	US- PGPUB; USPAT	OR	ON	2016/01/26 13:21

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Search Notes 	Application/Control No. 14503142	Applicant(s)/Patent Under Reexamination BAKHASH, EZRA EDDIE
	Examiner TING LEE	Art Unit 2173

CPC- SEARCHED		
Symbol	Date	Examiner
G06F3/0481, 04815, 04817, 0482, 0483, 04845	2/2/16	TL
G06F17/30864, 30873, 30572	2/2/16	TL
G06T15/04, 20	2/2/16	TL
G11B27/34	2/2/16	TL

CPC COMBINATION SETS - SEARCHED		
Symbol	Date	Examiner

US CLASSIFICATION SEARCHED			
Class	Subclass	Date	Examiner
715	782, 781, 764, 788, 766, 767	2/2/16	TL

SEARCH NOTES		
Search Notes	Date	Examiner
NPL search	1/26/16	TL
CPC search	2/2/16	TL
EAST search	1/2/16-2/2/166	TL

INTERFERENCE SEARCH			
US Class/ CPC Symbol	US Subclass / CPC Group	Date	Examiner
G06T15/04, 20		2/2/16	TL
G06F3/0481, 04815, 04817, 0482, 0483, 04845		2/2/16	TL
G11B27/34		2/2/16	TL

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INTERFERENCE SEARCH

US Class/ CPC Symbol	US Subclass / CPC Group	Date	Examiner
G06F17/30864, 30873, 30572		2/2/16	TL

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(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
14/503,142	09/30/2014	Ezra Eddie Bakhsh	747121-3	5089

TITLE OF INVENTION: System and Method for Displaying a Timeline Associated With a Plurality of Applications

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	SMALL	\$480	\$0	\$0	\$480	05/23/2016

EXAMINER	ART UNIT	CLASS-SUBCLASS
LEE. TING ZHOU	2173	715-782000

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.

Fitzsimmons IP Law

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 **506455** (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
- ☐ Applicant asserting small entity status. See 37 CFR 1.27
- ☐ Applicant changing to regular undiscounted fee status.

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.

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.

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 Todd Fitzsimmons
 Typed or printed name Todd Fitzsimmons

Date 2/22/16
 Registration No. 44,683

Electronic Patent Application Fee Transmittal

Application Number:	14503142			
Filing Date:	30-Sep-2014			
Title of Invention:	System and Method for Displaying a Timeline Associated With a Plurality of Applications			
First Named Inventor/Applicant Name:	Ezra Eddie Bakhsh			
Filer:	Todd E. Fitzsimmons			
Attorney Docket Number:	747121-3			
Filed as Small 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:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Utility Appl Issue Fee	2501	1	480	480
Publ. Fee- Early, Voluntary, or Normal	1504	1	0	0
Extension-of-Time:				
Miscellaneous:				
Total in USD (\$)				480

Electronic Acknowledgement Receipt

EFS ID:	24978933
Application Number:	14503142
International Application Number:	
Confirmation Number:	5089
Title of Invention:	System and Method for Displaying a Timeline Associated With a Plurality of Applications
First Named Inventor/Applicant Name:	Ezra Eddie Bakhash
Customer Number:	125600
Filer:	Todd E. Fitzsimmons
Filer Authorized By:	
Attorney Docket Number:	747121-3
Receipt Date:	22-FEB-2016
Filing Date:	30-SEP-2014
Time Stamp:	13:48:55
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	Credit Card
Payment was successfully received in RAM	\$ 480
RAM confirmation Number	86
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	Issue Fee Payment (PTO-85B)	Issue_Fee_Transmittal_Filed. pdf	106473	no	1
			6d8abe625db380c12bc615fc57d6c5da66c13bcf		
Warnings:					
Information:					
2	Fee Worksheet (SB06)	fee-info.pdf	32015	no	2
			6dd613a6c2bc4062bb19ae6d5364b2a1d0895edb		
Warnings:					
Information:					
Total Files Size (in bytes):			138488		
This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503. <u>New Applications Under 35 U.S.C. 111</u> If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application. <u>National Stage of an International Application under 35 U.S.C. 371</u> If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course. <u>New International Application Filed with the USPTO as a Receiving Office</u> If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.					



UNITED STATES PATENT AND TRADEMARK OFFICE

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

APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
14/503,142	09/30/2014	Ezra Eddie Bakhash	747121-3

125600
Fitzsimmons IP Law
14739 S. Vermont Ave.
Gardena, CA 90247

CONFIRMATION NO. 5089
IMPROPER CPOA LETTER



Date Mailed: 02/11/2016

NOTICE REGARDING POWER OF ATTORNEY

This is in response to the power of attorney filed 02/02/2016. The power of attorney in this application is not accepted for the reason(s) listed below:

- The power of attorney has not been accepted because the party who is giving power has not been identified. Power of attorney may only be signed by the applicant for patent (37 CFR 1.42) or the patent owner. A party who is not the applicant must become the applicant in accordance with 37 CFR 1.46(c) and appoint any power of attorney in compliance with 37 CFR 3.71 and 3.73. For a reissue application, reexamination proceeding, or supplemental examination proceeding, a patent owner who was not the applicant under 37 CFR 1.46 must appoint any power of attorney in compliance with 37 CFR 3.71 and 3.73. See 37 CFR 1.32(b)(4).

/eggolla/

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



UNITED STATES PATENT AND TRADEMARK OFFICE

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

APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
14/503,142	09/30/2014	Ezra Eddie Bakhsh	747121-3

125600
Fitzsimmons IP Law
14739 S. Vermont Ave.
Gardena, CA 90247

CONFIRMATION NO. 5089
IMPROPER CFR REQUEST



Date Mailed: 02/11/2016

RESPONSE TO REQUEST FOR CORRECTED FILING RECEIPT

Power of Attorney, Claims, Fees, System Limitations, and Miscellaneous

In response to your request for a corrected Filing Receipt, the Office is unable to comply with your request because:

- Any request to correct or update the name of the applicant must include an application data sheet (ADS) in compliance with 37 CFR 1.76 specifying the correct or updated name of the applicant in the applicant information section. Any request to change the applicant after an original applicant has been specified under 37 CFR 1.46(b) must include a new ADS in compliance with 37 CFR 1.76 specifying the applicant in the applicant information section and comply with 37 CFR 3.71 and 3.73. See 37 CFR 1.46(c).

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.

/eggolla/

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.

**POWER OF ATTORNEY
OR
REVOCATION OF POWER OF ATTORNEY
WITH A NEW POWER OF ATTORNEY
AND
CHANGE OF CORRESPONDENCE ADDRESS**

Application Number	14/503,142
Filing Date	09/30/2014
First Named Inventor	Bakhash, Ezra Eddie
Title	System and Method for Displaying a ...
Art Unit	2173
Examiner Name	Lee, Ting Zhou
Attorney Docket Number	747121-3

I hereby revoke all previous powers of attorney given in the above-identified application.

☐ A Power of Attorney is submitted herewith.

OR

☒ I hereby appoint Practitioner(s) associated with the following Customer Number as my/our attorney(s) or agent(s) to prosecute the application identified above, and to transact all business in the United States Patent and Trademark Office connected therewith:

125600

OR

☐ I hereby appoint Practitioner(s) named below as my/our attorney(s) or agent(s) to prosecute the application identified above, and to transact all business in the United States Patent and Trademark Office connected therewith:

Practitioner(s) Name	Registration Number

Please recognize or change the correspondence address for the above-identified application to:

☐ The address associated with the above-mentioned Customer Number.

OR

☐ The address associated with Customer Number:

OR

☐ Firm or Individual Name

Address

City

State

Zip

Country

Telephone

Email

I am the:

☐ Applicant/Inventor.

OR

☐ Assignee of record of the entire interest. See 37 CFR 3.71.
Statement under 37 CFR 3.73(b) (Form PTO/SB/96) submitted herewith or filed on _____.

SIGNATURE of Applicant or Assignee of Record

Signature	<i>Ezra Eddie Bakhash</i>	Date	2-2-2016
Name	Ezra Eddie Bakhash	Telephone	917 968 9695
Title and Company	Inventor		

NOTE: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required, see below*.

☐ *Total of _____ forms are submitted.

This collection of information is required by 37 CFR 1.31, 1.32 and 1.33. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 3 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: **Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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

Electronic Acknowledgement Receipt

EFS ID:	24890154
Application Number:	14503142
International Application Number:	
Confirmation Number:	5089
Title of Invention:	System and Method for Displaying a Timeline Associated With a Plurality of Applications
First Named Inventor/Applicant Name:	Ezra Eddie Bakhash
Customer Number:	125600
Filer:	Todd E. Fitzsimmons
Filer Authorized By:	
Attorney Docket Number:	747121-3
Receipt Date:	11-FEB-2016
Filing Date:	30-SEP-2014
Time Stamp:	14:28:05
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no
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File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Power of Attorney	POA_Filed.pdf	68329 dc24705d0fd0b9d79a8b56f795831a162ba216d2	no	1

Warnings:

Information:

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.

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.

POWER OF ATTORNEY OR REVOCATION OF POWER OF ATTORNEY WITH A NEW POWER OF ATTORNEY AND CHANGE OF CORRESPONDENCE ADDRESS	Application Number	14/827,142
	Filing Date	08/14/2015
	First Named Inventor	Cruz, Victor H.
	Title	Glass/Ceramic Replacement of Epoxy for ...
	Art Unit	2811
	Examiner Name	Webb, Vernon P.
	Attorney Docket Number	743261-11

I hereby revoke all previous powers of attorney given in the above-identified application.

☐ A Power of Attorney is submitted herewith.

OR

☒ I hereby appoint Practitioner(s) associated with the following Customer Number as my/our attorney(s) or agent(s) to prosecute the application identified above, and to transact all business in the United States Patent and Trademark Office connected therewith:

125600

OR

☐ I hereby appoint Practitioner(s) named below as my/our attorney(s) or agent(s) to prosecute the application identified above, and to transact all business in the United States Patent and Trademark Office connected therewith:

Practitioner(s) Name	Registration Number

Please recognize or change the correspondence address for the above-identified application to:

☒ The address associated with the above-mentioned Customer Number.

OR

☐ The address associated with Customer Number:

OR

☐ Firm or Individual Name			
Address			
City	State	Zip	
Country			
Telephone	Email		

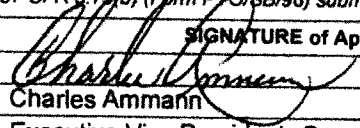
I am the:

☐ Applicant/Inventor.

OR

☒ Assignee of record of the entire interest. See 37 CFR 3.71. Statement under 37 CFR 3.72(b) (Form PTO/SB/96) submitted herewith or filed on February 2, 2016 submitted herewith

SIGNATURE of Applicant or Assignee of Record

Signature		Date	February 2, 2016
Name	Charles Ammann	Telephone	805-480-2037
Title and Company	Executive Vice President, General Counsel & Secretary		

NOTE: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required, see below*.

☐ *Total of _____ forms are submitted.

This collection of information is required by 37 CFR 1.31, 1.32 and 1.33. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 3 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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

Electronic Acknowledgement Receipt

EFS ID:	24801554
Application Number:	14503142
International Application Number:	
Confirmation Number:	5089
Title of Invention:	System and Method for Displaying a Timeline Associated With a Plurality of Applications
First Named Inventor/Applicant Name:	Ezra Eddie Bakhsh
Customer Number:	125600
Filer:	Todd E. Fitzsimmons
Filer Authorized By:	
Attorney Docket Number:	747121-3
Receipt Date:	02-FEB-2016
Filing Date:	30-SEP-2014
Time Stamp:	19:15:51
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no
------------------------	----

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Power of Attorney	POA_Filed.pdf	107047 ecd6ba7ca0d024d6b0db663e854d87653b76d4c1	no	1

Warnings:

Information:

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.

Doc Code: DIST.E.FILE Document Description: Electronic Terminal Disclaimer - Filed		PTO/SB/25 PTO/SB/26 U.S. Patent and Trademark Office Department of Commerce
Electronic Petition Request	TERMINAL DISCLAIMER TO OBVIATE A PROVISIONAL DOUBLE PATENTING REJECTION OVER A PENDING "REFERENCE" APPLICATION AND TERMINAL DISCLAIMER TO OBVIATE A DOUBLE PATENTING REJECTION OVER A "PRIOR" PATENT	
Application Number	14503142	
Filing Date	30-Sep-2014	
First Named Inventor	Ezra Bakhash	
Attorney Docket Number	747121-3	
Title of Invention	System and Method for Displaying a Timeline Associated With a Plurality of Applications	
☒ 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	
Ezra Eddie Bakhash	100 %	
The owner(s) of 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 any patent granted on pending reference Application Number(s)		
14614708 filed on 02/05/2015 as the term of any patent granted on said reference application may be shortened by any terminal disclaimer filed prior to the grant of any patent on the pending reference application. 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 any patent granted on the reference application 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 any patent granted on the instant application that would extend to the expiration date of the full statutory term of any patent granted on said reference application, "as the term of any patent granted on said reference application may be shortened by any terminal disclaimer filed prior to the grant of any patent on the pending reference application," in the event that any such patent granted on the pending reference application: 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 shortened by any terminal disclaimer filed prior to its grant.		
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)		

8881048

7735018

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.

Applicants 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

/Ezra Eddie Bakhash/

Name

Ezra Eddie Bakhash

*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:	14503142			
Filing Date:	30-Sep-2014			
Title of Invention:	System and Method for Displaying a Timeline Associated With a Plurality of Applications			
First Named Inventor/Applicant Name:	Ezra Eddie Bakhash			
Filer:	Todd E. Fitzsimmons/Ezra Eddie Bakhash			
Attorney Docket Number:	747121-3			
Filed as Small 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	2814	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.: 14503142

Filing Date: 30-Sep-2014

Applicant/Patent under Reexamination: Bakhsh et al.

Electronic Terminal Disclaimer filed on February 2, 2016

☒ 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:	24801761
Application Number:	14503142
International Application Number:	
Confirmation Number:	5089
Title of Invention:	System and Method for Displaying a Timeline Associated With a Plurality of Applications
First Named Inventor/Applicant Name:	Ezra Eddie Bakhash
Customer Number:	125600
Filer:	Todd E. Fitzsimmons/Ezra Eddie Bakhash
Filer Authorized By:	Todd E. Fitzsimmons
Attorney Docket Number:	747121-3
Receipt Date:	02-FEB-2016
Filing Date:	30-SEP-2014
Time Stamp:	19:46:59
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	Deposit Account
Payment was successfully received in RAM	\$ 160
RAM confirmation Number	5891
Deposit Account	506455
Authorized User	FITZSIMMONS, TODD

The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:

Charge any Additional Fees required under 37 CFR 1.16 (National application filing, search, and examination fees)

Charge any Additional Fees required under 37 CFR 1.17 (Patent application and reexamination processing fees)

Charge any Additional Fees required under 37 CFR 1.19 (Document supply fees)

Charge any Additional Fees required under 37 CFR 1.20 (Post Issuance fees)

Charge any Additional Fees required under 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	Electronic Terminal Disclaimer-Filed	eTerminal-Disclaimer.pdf	36251	no	3
			c5f746ef4cac3e074c45970be4c54ecd2f87a d0c		

Warnings:

Information:

2	Fee Worksheet (SB06)	fee-info.pdf	30168	no	2
			d278ee2af775165a0f4d07abe36c1f34e347 6574		

Warnings:

Information:

Total Files Size (in bytes):			66419
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This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

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

National Stage of an International Application under 35 U.S.C. 371

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

New International Application Filed with the USPTO as a Receiving Office

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



UNITED STATES PATENT AND TRADEMARK OFFICE

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

APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
14/503,142	09/30/2014	Ezra Eddie Bakhsh	747121-3

CONFIRMATION NO. 5089

PUBLICATION NOTICE



OC000000075046475

125600
Fitzsimmons IP Law
14739 S. Vermont Ave.
Gardena, CA 90247

Title:System and Method for Displaying a Timeline Associated With a Plurality of Applications

Publication No.US-2015-0128059-A1

Publication Date:05/07/2015

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 (703) 308-9726 or (800) 972-6382, by facsimile at (703) 305-8759, 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 Management, Application Assistance Unit (571) 272-4000, or (571) 272-4200, or 1-888-786-0101



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
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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
14/503,142	09/30/2014	2688	800	747121-3	20	3

CONFIRMATION NO. 5089

UPDATED FILING RECEIPT



125600
Fitzsimmons IP Law
14739 S. Vermont Ave.
Gardena, CA 90247

Date Mailed: 01/28/2015

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)

Ezra Eddie Bakhash, New York, NY;

Applicant(s)

Ezra Eddie Bakhash, New York, NY;

Power of Attorney: None

Domestic Priority data as claimed by applicant

This application is a CON of 12/751,879 03/31/2010 PAT 8881048
which is a CON of 11/531,676 09/13/2006 PAT 7735018
which claims benefit of 60/717,019 09/13/2005

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.

If Required, Foreign Filing License Granted: 10/06/2014

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 14/503,142**

Projected Publication Date: 05/07/2015

Non-Publication Request: No

Early Publication Request: No

**** SMALL ENTITY ****

Title

System and Method for Displaying a Timeline Associated With a Plurality of Applications

Preliminary Class

360

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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The applicant has been granted a license under 35 U.S.C. 184, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" followed by a date appears on this form. Such licenses are issued in all applications where the conditions for issuance of a license have been met, regardless of whether or not a license may be required as set forth in 37 CFR 5.15. The scope and limitations of this license are set forth in 37 CFR 5.15(a) unless an earlier license has been issued under 37 CFR 5.15(b). The license is subject to revocation upon written notification. The date indicated is the effective date of the license, unless an earlier license of similar scope has been granted under 37 CFR 5.13 or 5.14.

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 Assets Control, 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).

SelectUSA

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
14/503,142

APPLICATION AS FILED - PART I

(Column 1)		(Column 2)	SMALL ENTITY		OR	OTHER THAN SMALL ENTITY	
FOR	NUMBER FILED	NUMBER EXTRA	RATE(\$)	FEE(\$)		RATE(\$)	FEE(\$)
BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A	N/A	70		N/A	
SEARCH FEE (37 CFR 1.16(k), (l), or (m))	N/A	N/A	N/A	300		N/A	
EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A	N/A	360		N/A	
TOTAL CLAIMS (37 CFR 1.16(j))	20	minus 20 = *	x 40 =	0.00	OR		
INDEPENDENT CLAIMS (37 CFR 1.16(h))	3	minus 3 = *	x 210 =	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			
			TOTAL	730		TOTAL	

* If the difference in column 1 is less than zero, enter "0" in column 2.

APPLICATION AS AMENDED - PART II

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

		(Column 1)		(Column 2)	(Column 3)	SMALL ENTITY		OR	OTHER THAN SMALL ENTITY	
AMENDMENT B		CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE(\$)	ADDITIONAL FEE(\$)		RATE(\$)	ADDITIONAL FEE(\$)
	Total (37 CFR 1.16(i))	*	Minus	**	=	x	=	OR	x	=
	Independent (37 CFR 1.16(h))	*	Minus	***	=	x	=	OR	x	=
	Application Size Fee (37 CFR 1.16(s))							OR		
	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.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: BAKHASH, EZRA EDDIE

Art Unit:

Serial No.: 14/503,142

Examiner:

Filed: 09/30/2014

Confirmation No.: 5089

Title: System and Method for Displaying a
Timeline Associated With a Plurality of
Applications

MISSING PARTS TRANSMITTAL LETTER

Mail Stop: MISSING PARTS
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

In response to the Notification of Missing Requirements under 35 U.S. C. 371, mailed October 23, 2014, and the Notices of Incomplete Reply, mailed December 1, 2014, and December 22, 2014, enclosed please find the following:

1. Application Data Sheet, revised to identify inventor by his legal name and corrected domestic benefit.
2. Declaration identifying inventor by his legal name

It should be noted that Applicant paid the \$70 filing fee for Missing Parts on November 3, 2014, in conjunction with a Reply to Notice of Filing Missing Parts. However, in connection with this filing, Applicant authorizes the Commissioner to charge any outstanding fees, including, a \$100 fee for a one-month extension of time (extending the due date to the 10/23/14 Notice to File Missing Parts from 12/23/14 to 1/23/15), any additional extension of time fees, and any additional fees (e.g., Missing Parts fee, etc.), to Deposit Account No. 50-0639.

Serial No. 13/057,455

~~Amended 12/13/14~~

Page 2

Date: January 20, 2015

FITZSIMMONS IP LAW
14739 S. Vermont Ave.
Gardena, CA 90247
Telephone: (213) 500-1178

Respectfully submitted,



Todd E. Fitzsimmons
Attorney for Applicants
Registration No. 44,683

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.

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	747121-3
		Application Number	<u>14/503,142</u>
Title of Invention	System and Method for Displaying a Timeline Associated With a Plurality of Applications		
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		
Mr.		Eddie	Bakhash			
Residence Information (Select One) ☒ US Residency ☐ Non US Residency ☐ Active US Military Service						
City	New York	State/Province	NY	Country of Residence	US	
Mailing Address of Inventor:						
Address 1		2 Columbus Ave., Apt. 32A				
Address 2						
City	New York	State/Province	NY			
Postal Code	10023	Country	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).			
☐ An Address is being provided for the correspondence information of this application.			
Customer Number	125600		
Email Address	todd@fitziplaw.com	Add Email	Remove Email

Application Information:

Title of the Invention	System and Method for Displaying a Timeline Associated With a Plurality of Applications		
Attorney Docket Number	747121-3	Small Entity Status Claimed	☒
Application Type	Nonprovisional		
Subject Matter	Utility		
Total Number of Drawing Sheets (if any)	30	Suggested Figure for Publication (if any)	11
Filing By Reference :			

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.

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	747121-3
		Application Number	<u>14/503,142</u>
Title of Invention	System and Method for Displaying a Timeline Associated With a Plurality of Applications		

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
12/751,879	2010-03-31	US

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	125600		

Domestic Benefit/National Stage Information:

This section allows for the applicant to either claim benefit under 35 U.S.C. 119(e), 120, 121, or 365(c) or indicate National Stage entry from a PCT application. Providing this 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 blank.

Prior Application Status	Pending	Remove			
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)		
<u>14/503142</u>	Continuation of	12/751879	2010-03-31		
Prior Application Status	<u>Patented</u>	Remove			
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)	Patent Number	Issue Date (YYYY-MM-DD)
<u>12/751879</u>	<u>Continuation of</u>	<u>11/531676</u>	<u>2006-09-13</u>	<u>7735018</u>	<u>2010-06-08</u>
Prior Application Status	<u>Abandoned</u>	Remove			

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.

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	747121-3
		Application Number	<u>14/503,142</u>
Title of Invention	System and Method for Displaying a Timeline Associated With a Plurality of Applications		
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)
<u>11/531676</u>	<u>Claims benefit of provisional</u>	<u>60/717019</u>	<u>2005-09-13</u>
Additional Domestic Benefit/National Stage Data may be generated within this form by selecting the Add button.			

Foreign Priority Information:

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(d). 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(h)(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.

Authorization to Permit Access:

☐ Authorization to Permit Access to the Instant Application by the Participating Offices

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.

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	747121-3
		Application Number	<u>14/503,142</u>
Title of Invention	System and Method for Displaying a Timeline Associated With a Plurality of Applications		

If 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 World Intellectual Property Office (WIPO), and any other intellectual property offices in which a foreign application claiming priority to the instant patent application is filed access to the instant patent application. See 37 CFR 1.14(c) and (h). This box should not be checked if the applicant does not wish the EPO, JPO, KIPO, WIPO, or other intellectual property office in which a foreign application claiming priority to the instant patent application is filed to have access to the instant patent application.

In accordance with 37 CFR 1.14(h)(3), access will be provided to a copy of the instant patent application with respect to: 1) the instant patent application-as-filed; 2) any foreign application to which the instant patent application claims priority under 35 U.S.C. 119(a)-(d) if a copy of the foreign application that satisfies the certified copy requirement of 37 CFR 1.55 has been filed in the instant patent application; and 3) any U.S. application-as-filed from which benefit is sought in the instant patent application.

In accordance with 37 CFR 1.14(c), access may be provided to information concerning the date of filing this Authorization.

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. ☐				
Prefix	Given Name	Middle Name	Family Name	Suffix

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.

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	747121-3
		Application Number	<u>14/503,142</u>
Title of Invention	System and Method for Displaying a Timeline Associated With a Plurality of Applications		

Mailing Address Information For Applicant:			
Address 1			
Address 2			
City		State/Province	
Country		Postal Code	
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.

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		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.				

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.

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	747121-3
		Application Number	<u>14/503,142</u>
Title of Invention	System and Method for Displaying a Timeline Associated With a Plurality of Applications		

Signature:

NOTE: This form must be signed in accordance with 37 CFR 1.33. See 37 CFR 1.4 for signature requirements and certifications.					
Signature				Date (YYYY-MM-DD)	2014-12-11
First Name	Todd	Last Name	Fitzsimmons	Registration Number	44683
Additional Signature may be generated within this form by selecting the Add button.					

This collection of information is required by 37 CFR 1.76. 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 23 minutes to complete, including gathering, preparing, and submitting the completed application data sheet 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.**

DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76)

Title of
Invention

System And Method For Displaying A Timeline
Associated With A Plurality Of Applications

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 14/503,142

filed on 10/23/2014

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: Ezra Eddie Bakhsh

Date (Optional) : 11/3/2014

Signature: Eddie Bakhsh

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 Patent Application Fee Transmittal

Application Number:	14503142			
Filing Date:	30-Sep-2014			
Title of Invention:	System and Method for Displaying a Timeline Associated With a Plurality of Applications			
First Named Inventor/Applicant Name:	E. Eddie Bakhash			
Filer:	Todd E. Fitzsimmons			
Attorney Docket Number:	747121-3			
Filed as Small 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:				
Extension-of-Time:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Extension - 1 month with \$0 paid	2251	1	100	100
Miscellaneous:				
Total in USD (\$)				100

Electronic Acknowledgement Receipt

EFS ID:	21255676
Application Number:	14503142
International Application Number:	
Confirmation Number:	5089
Title of Invention:	System and Method for Displaying a Timeline Associated With a Plurality of Applications
First Named Inventor/Applicant Name:	E. Eddie Bakhash
Customer Number:	125600
Filer:	Todd E. Fitzsimmons
Filer Authorized By:	
Attorney Docket Number:	747121-3
Receipt Date:	20-JAN-2015
Filing Date:	30-SEP-2014
Time Stamp:	16:48:18
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	Deposit Account
Payment was successfully received in RAM	\$ 100
RAM confirmation Number	4105
Deposit Account	506455
Authorized User	

The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:

Charge any Additional Fees required under 37 C.F.R. Section 1.16 (National application filing, search, and examination fees)

Charge any Additional Fees required under 37 C.F.R. Section 1.17 (Patent application and reexamination processing fees)

Charge any Additional Fees required under 37 C.F.R. Section 1.19 (Document supply fees)

Charge any Additional Fees required under 37 C.F.R. Section 1.20 (Post Issuance fees)

Charge any Additional Fees required under 37 C.F.R. Section 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 Letter	Third_Transmittal_Form_Filed.pdf	49703	no	2
			4958cec0ad20f2246d23754b12e72744d7ab5cae		
Warnings:					
Information:					
2	Application Data Sheet	Second_Revised_Application_Data_Sheet_Filed.pdf	401396	no	6
			c94689c8d7281bdf041cd0863724e619b27c6958		
Warnings:					
Information:					
This is not an USPTO supplied ADS fillable form					
3	Oath or Declaration filed	Second_Revised_Declaration_Filed.pdf	80448	no	1
			b6463dbf58ac30684f17728c38bc1eeb3aeb6348		
Warnings:					
Information:					
4	Fee Worksheet (SB06)	fee-info.pdf	30140	no	2
			b15ac91b53af1c3e7aee07145db35dadbe3cad55		
Warnings:					
Information:					
Total Files Size (in bytes):			561687		

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.

Document code: WFEE

United States Patent and Trademark Office
Sales Receipt for Accounting Date: 01/28/2015

MTEKLEMI	SALE	#00000024	Mailroom Dt: 01/20/2015	500639	14503142
		01 FC : 2830	70.00 DA		

PATENT APPLICATION FEE DETERMINATION RECORD

Substitute for Form PTO-875

Application or Docket Number
14/503,142

APPLICATION AS FILED - PART I

(Column 1)		(Column 2)
FOR	NUMBER FILED	NUMBER EXTRA
BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A
SEARCH FEE (37 CFR 1.16(k), (l), or (m))	N/A	N/A
EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A
TOTAL CLAIMS (37 CFR 1.16(j))	20 minus 20 =	*
INDEPENDENT CLAIMS (37 CFR 1.16(h))	3 minus 3 =	*
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.

SMALL ENTITY

RATE(\$)	FEE(\$)
N/A	70
N/A	300
N/A	360
x 40 =	0.00
x 210 =	0.00
	0.00
TOTAL	730

OR

OTHER THAN SMALL ENTITY

RATE(\$)	FEE(\$)
N/A	
N/A	
N/A	
TOTAL	

APPLICATION AS AMENDED - PART II

	(Column 1)	(Column 2)	(Column 3)
AMENDMENT A	CLAIMS REMAINING AFTER AMENDMENT	HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA
Total (37 CFR 1.16(i))	*	Minus **	=
Independent (37 CFR 1.16(h))	*	Minus ***	=
Application Size Fee (37 CFR 1.16(s))			
FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))			

SMALL ENTITY

RATE(\$)	ADDITIONAL FEE(\$)
x =	
x =	
TOTAL ADD'L FEE	

OR

OTHER THAN SMALL ENTITY

RATE(\$)	ADDITIONAL FEE(\$)
x =	
x =	
TOTAL ADD'L FEE	

	(Column 1)	(Column 2)	(Column 3)
AMENDMENT B	CLAIMS REMAINING AFTER AMENDMENT	HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA
Total (37 CFR 1.16(i))	*	Minus **	=
Independent (37 CFR 1.16(h))	*	Minus ***	=
Application Size Fee (37 CFR 1.16(s))			
FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))			

RATE(\$)	ADDITIONAL FEE(\$)
x =	
x =	
TOTAL ADD'L FEE	

OR

RATE(\$)	ADDITIONAL FEE(\$)
x =	
x =	
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.



UNITED STATES PATENT AND TRADEMARK OFFICE

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

APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
14/503,142	09/30/2014	E. Eddie Bakhash	747121-3

CONFIRMATION NO. 5089

FORMALITIES LETTER



OC000000072497723

125600
Fitzsimmons IP Law
14739 S. Vermont Ave.
Gardena, CA 90247

Date Mailed: 12/22/2014

NOTICE OF INCOMPLETE REPLY (NONPROVISIONAL)

Filing Date Granted

The U.S. Patent and Trademark Office has received your reply on 12/11/2014 to the Notice to File Missing Parts (Notice) mailed 10/23/2014 and it has been entered into the nonprovisional application. The reply, however, does not include the following items required in the Notice. A complete reply must be timely filed to prevent ABANDONMENT of the above-identified application. Replies should be mailed to: Mail Stop Missing Parts, Commissioner for Patents, P.O. Box 1450, Alexandria VA 22313-1450.

Applicant is given **TWO MONTHS** from the date of the Notice to File Missing Parts (Notice) mailed 10/23/2014 within which to file all required items and pay any fees required below to avoid abandonment. Extensions of time may be obtained by filing a petition accompanied by the extension fee under the provisions of 37 CFR 1.136(a).

- The application data sheet or inventor's oath or declaration does not identify each inventor by his or her legal name.

E. Eddie Bakhash

Replies must be received in the USPTO within the set time period or must include a proper Certificate of Mailing or Transmission under 37 CFR 1.8 with a mailing or transmission date within the set time period. For more information and a suggested format, see Form PTO/SB/92 and MPEP 512.

Replies should be mailed to:

Mail Stop Missing Parts
Commissioner for Patents
P.O. Box 1450
Alexandria VA 22313-1450

Registered users of EFS-Web may alternatively submit their reply to this notice via EFS-Web, including a copy of this Notice and selecting the document description "Applicant response to Pre-Exam Formalities Notice".
<https://sportal.uspto.gov/authenticate/AuthenticateUserLocalEPF.html>

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

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

/cnguyen/

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



UNITED STATES PATENT AND TRADEMARK OFFICE

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

APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
14/503,142	09/30/2014	E. Eddie Bakhsh	747121-3

125600
Fitzsimmons IP Law
14739 S. Vermont Ave.
Gardena, CA 90247

CONFIRMATION NO. 5089
IMPROPER CFR REQUEST



Date Mailed: 12/22/2014

RESPONSE TO REQUEST FOR CORRECTED FILING RECEIPT

Power of Attorney, Claims, Fees, System Limitations, and Miscellaneous

In response to your request for a corrected Filing Receipt, the Office is unable to comply with your request because:

- The request to correct inventorship or inventor name(s) under 37 CFR 1.48 is deficient because the fee set forth in 37 CFR 1.17(i) (for a nonprovisional application) or 37 CFR 1.17(q) (for a provisional application) has not been submitted.

/cnguyen/

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

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: BAKHASH, EZRA EDDIE

Art Unit:

Serial No.: 14/503,142

Examiner:

Filed: 09/30/2014

Confirmation No.: 5089

Title: System and Method for Displaying a
Timeline Associated With a Plurality of
Applications

MISSING PARTS TRANSMITTAL LETTER

Mail Stop: MISSING PARTS
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

In response to the Notification of Missing Requirements under 35 U.S. C. 371, mailed October 23, 2014, and the Notice of Incomplete Reply, mailed December 1, 2014, enclosed please find the following:

1. Application Data Sheet, revised to identify inventor by his legal name and corrected domestic benefit.
2. Declaration identifying inventor by his legal name

It should be noted that Applicant paid the \$70 filing fee for Missing Parts on November 3, 2014, in conjunction with a Reply to Notice of Filing Missing Parts. Thus, while Applicant believes that no fees are currently due, the Commissioner is authorized to charge any fees, including extension of time fees, to Deposit Account No. 50-0639.

Respectfully submitted,

Date: December 11, 2014



Todd E. Fitzsimmons
Attorney for Applicants
Registration No. 44,683

FITZSIMMONS IP LAW
14739 S. Vermont Ave.
Gardena, CA 90247

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.

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	747121-3
		Application Number	<u>14/503,142</u>
Title of Invention	System and Method for Displaying a Timeline Associated With a Plurality of Applications		
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		
Mr.		Eddie	Bakhash			
Residence Information (Select One) ☒ US Residency ☐ Non US Residency ☐ Active US Military Service						
City	New York	State/Province	NY	Country of Residence	US	
Mailing Address of Inventor:						
Address 1		2 Columbus Ave., Apt. 32A				
Address 2						
City	New York	State/Province	NY			
Postal Code	10023	Country	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).			
☐ An Address is being provided for the correspondence information of this application.			
Customer Number	125600		
Email Address	todd@fitziplaw.com	Add Email	Remove Email

Application Information:

Title of the Invention	System and Method for Displaying a Timeline Associated With a Plurality of Applications		
Attorney Docket Number	747121-3	Small Entity Status Claimed	☒
Application Type	Nonprovisional		
Subject Matter	Utility		
Total Number of Drawing Sheets (if any)	30	Suggested Figure for Publication (if any)	11
Filing By Reference :			

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.

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	747121-3
		Application Number	<u>14/503,142</u>
Title of Invention	System and Method for Displaying a Timeline Associated With a Plurality of Applications		

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
12/751,879	2010-03-31	US

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	125600		

Domestic Benefit/National Stage Information:

This section allows for the applicant to either claim benefit under 35 U.S.C. 119(e), 120, 121, or 365(c) or indicate National Stage entry from a PCT application. Providing this 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 blank.

Prior Application Status	Pending	Remove			
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)		
<u>14/503142</u>	Continuation of	12/751879	2010-03-31		
Prior Application Status	<u>Patented</u>	Remove			
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)	Patent Number	Issue Date (YYYY-MM-DD)
<u>12/751879</u>	<u>Continuation of</u>	<u>11/531676</u>	<u>2006-09-13</u>	<u>7735018</u>	<u>2010-06-08</u>
Prior Application Status	<u>Abandoned</u>	Remove			

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	747121-3
		Application Number	<u>14/503,142</u>
Title of Invention	System and Method for Displaying a Timeline Associated With a Plurality of Applications		
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)
<u>11/531676</u>	<u>Claims benefit of provisional</u>	<u>60/717019</u>	<u>2005-09-13</u>
Additional Domestic Benefit/National Stage Data may be generated within this form by selecting the Add button.			

Foreign Priority Information:

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(d). 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(h)(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.

Authorization to Permit Access:

☐ Authorization to Permit Access to the Instant Application by the Participating Offices

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	747121-3
		Application Number	<u>14/503,142</u>
Title of Invention	System and Method for Displaying a Timeline Associated With a Plurality of Applications		

If 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 World Intellectual Property Office (WIPO), and any other intellectual property offices in which a foreign application claiming priority to the instant patent application is filed access to the instant patent application. See 37 CFR 1.14(c) and (h). This box should not be checked if the applicant does not wish the EPO, JPO, KIPO, WIPO, or other intellectual property office in which a foreign application claiming priority to the instant patent application is filed to have access to the instant patent application.

In accordance with 37 CFR 1.14(h)(3), access will be provided to a copy of the instant patent application with respect to: 1) the instant patent application-as-filed; 2) any foreign application to which the instant patent application claims priority under 35 U.S.C. 119(a)-(d) if a copy of the foreign application that satisfies the certified copy requirement of 37 CFR 1.55 has been filed in the instant patent application; and 3) any U.S. application-as-filed from which benefit is sought in the instant patent application.

In accordance with 37 CFR 1.14(c), access may be provided to information concerning the date of filing this Authorization.

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. ☐				
Prefix	Given Name	Middle Name	Family Name	Suffix

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.

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	747121-3
		Application Number	<u>14/503,142</u>
Title of Invention	System and Method for Displaying a Timeline Associated With a Plurality of Applications		

Mailing Address Information For Applicant:			
Address 1			
Address 2			
City		State/Province	
Country		Postal Code	
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.

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.				
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Prefix	Given Name	Middle Name	Family Name	Suffix
Mailing Address Information For Assignee including Non-Applicant Assignee:				
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Country		Postal Code		
Phone Number		Fax Number		
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Additional Assignee or Non-Applicant Assignee Data may be generated within this form by selecting the Add button.				

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Application Data Sheet 37 CFR 1.76		Attorney Docket Number	747121-3
		Application Number	<u>14/503,142</u>
Title of Invention	System and Method for Displaying a Timeline Associated With a Plurality of Applications		

Signature:

NOTE: This form must be signed in accordance with 37 CFR 1.33. See 37 CFR 1.4 for signature requirements and certifications.					
Signature				Date (YYYY-MM-DD)	2014-12-11
First Name	Todd	Last Name	Fitzsimmons	Registration Number	44683
Additional Signature may be generated within this form by selecting the Add button.					

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DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76)

Title of
Invention

System And Method For Displaying A Timeline
Associated With A Plurality Of Applications

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 14/503,142

filed on 10/23/2014

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:

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LEGAL NAME OF INVENTOR

Inventor: Ezra Eddie Bakhsh

Date (Optional): 11/3/2014

Signature: Eddie Bakhsh

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.

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Electronic Acknowledgement Receipt

EFS ID:	20939417
Application Number:	14503142
International Application Number:	
Confirmation Number:	5089
Title of Invention:	System and Method for Displaying a Timeline Associated With a Plurality of Applications
First Named Inventor/Applicant Name:	E. Eddie Bakhash
Customer Number:	125600
Filer:	Todd E. Fitzsimmons
Filer Authorized By:	
Attorney Docket Number:	747121-3
Receipt Date:	11-DEC-2014
Filing Date:	30-SEP-2014
Time Stamp:	17:45:40
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no
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File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Transmittal Letter	Second_Revised_Transmittal_Form_Filed.pdf	39848 c7cc3d8e3fbdcfb01c544bca8eb4f59750185081	no	1

Warnings:

Information:

2	Application Data Sheet	Second_Revised_Application_ Data_Sheet_Filed.pdf	401396 c94689c8d7281bdf041cd0863724e619b27c6958	no	6
Warnings:					
Information:					
This is not an USPTO supplied ADS fillable form					
3	Oath or Declaration filed	Second_Revised_Declaration_F iled.pdf	80448 b6463dbf58ac30684f17728c38bc1eeb3ae6b348	no	1
Warnings:					
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Total Files Size (in bytes):			521692		
This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503. <u>New Applications Under 35 U.S.C. 111</u> If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application. <u>National Stage of an International Application under 35 U.S.C. 371</u> If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course. <u>New International Application Filed with the USPTO as a Receiving Office</u> If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.					



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APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
14/503,142	09/30/2014	E. Eddie Bakhsh	747121-3

CONFIRMATION NO. 5089

FORMALITIES LETTER



125600
Fitzsimmons IP Law
14739 S. Vermont Ave.
Gardena, CA 90247

Date Mailed: 12/01/2014

NOTICE OF INCOMPLETE REPLY (NONPROVISIONAL)

Filing Date Granted

The U.S. Patent and Trademark Office has received your reply on 11/03/2014 to the Notice to File Missing Parts (Notice) mailed 10/23/2014 and it has been entered into the nonprovisional application. The reply, however, does not include the following items required in the Notice. A complete reply must be timely filed to prevent ABANDONMENT of the above-identified application. Replies should be mailed to: Mail Stop Missing Parts, Commissioner for Patents, P.O. Box 1450, Alexandria VA 22313-1450.

Applicant is given **TWO MONTHS** from the date of the Notice to File Missing Parts (Notice) mailed 10/23/2014 within which to file all required items and pay any fees required below to avoid abandonment. Extensions of time may be obtained by filing a petition accompanied by the extension fee under the provisions of 37 CFR 1.136(a).

- The application data sheet or inventor's oath or declaration does not identify each inventor by his or her legal name.

E. Eddie Bakhsh

Replies must be received in the USPTO within the set time period or must include a proper Certificate of Mailing or Transmission under 37 CFR 1.8 with a mailing or transmission date within the set time period. For more information and a suggested format, see Form PTO/SB/92 and MPEP 512.

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/tnguyen/

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APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
14/503,142	09/30/2014	E. Eddie Bakhsh	747121-3

125600
Fitzsimmons IP Law
14739 S. Vermont Ave.
Gardena, CA 90247

CONFIRMATION NO. 5089
IMPROPER CFR REQUEST



OC000000071893142

Date Mailed: 12/01/2014

RESPONSE TO REQUEST FOR CORRECTED FILING RECEIPT

Power of Attorney, Claims, Fees, System Limitations, and Miscellaneous

In response to your request for a corrected Filing Receipt, the Office is unable to comply with your request because:

- The ADS submitted on_11/03/2014_ was not properly marked up to show the desired changes. For information being changed relative to the information already of record, additions must be shown with underlining, and deletions must be shown with strike-through or brackets. See 37 CFR 1.76(c)(2)

/tnguyen/

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

PATENT APPLICATION FEE DETERMINATION RECORD

Substitute for Form PTO-875

Application or Docket Number
14/503,142

APPLICATION AS FILED - PART I

(Column 1)

(Column 2)

SMALL ENTITY

OR

OTHER THAN SMALL ENTITY

FOR	NUMBER FILED	NUMBER EXTRA
BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A
SEARCH FEE (37 CFR 1.16(k), (l), or (m))	N/A	N/A
EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A
TOTAL CLAIMS (37 CFR 1.16(i))	20 minus 20 =	*
INDEPENDENT CLAIMS (37 CFR 1.16(h))	3 minus 3 =	*
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))		

RATE(\$)	FEE(\$)
N/A	70
N/A	300
N/A	360
x 40 =	0.00
x 210 =	0.00
	0.00
	0.00
TOTAL	730

RATE(\$)	FEE(\$)
N/A	
N/A	
N/A	
TOTAL	

* If the difference in column 1 is less than zero, enter "0" in column 2.

APPLICATION AS AMENDED - PART II

(Column 1)

(Column 2)

(Column 3)

SMALL ENTITY

OR

OTHER THAN SMALL ENTITY

AMENDMENT A		CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA
	Total (37 CFR 1.16(i))	*	Minus	**	=
	Independent (37 CFR 1.16(h))	*	Minus	***	=
	Application Size Fee (37 CFR 1.16(s))				
	FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))				

RATE(\$)	ADDITIONAL FEE(\$)
x =	
x =	
TOTAL ADD'L FEE	

RATE(\$)	ADDITIONAL FEE(\$)
x =	
x =	
TOTAL ADD'L FEE	

(Column 1)

(Column 2)

(Column 3)

AMENDMENT B		CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA
	Total (37 CFR 1.16(i))	*	Minus	**	=
	Independent (37 CFR 1.16(h))	*	Minus	***	=
	Application Size Fee (37 CFR 1.16(s))				
	FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))				

RATE(\$)	ADDITIONAL FEE(\$)
x =	
x =	
TOTAL ADD'L FEE	

RATE(\$)	ADDITIONAL FEE(\$)
x =	
x =	
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.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: BAKHASH, EZRA EDDIE

Art Unit:

Serial No.: 14/503,142

Examiner:

Filed: 09/30/2014

Confirmation No.: 5089

Title: System and Method for Displaying a
Timeline Associated With a Plurality of
Applications

MISSING PARTS TRANSMITTAL LETTER

Mail Stop: MISSING PARTS
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

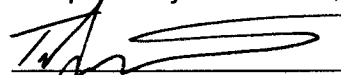
In response to the Notification of Missing Requirements under 35 U.S. C. 371,
mailed October 23, 2014, enclosed please find the following:

1. Application Data Sheet identifying inventor by his legal name and corrected domestic benefit.
2. Declaration identifying inventor by his legal name
3. A copy of the Specification and Drawings (i.e., from the previously filed application)

The Commissioner of Patents is authorized to charge \$70 to cover the filing fee, and any amount due, or credit any overpayment, to Deposit Account No. 50-0639.

Date: November 3, 2014

Respectfully submitted,



Todd E. Fitzsimmons
Attorney for Applicants
Registration No. 44,683

FITZSIMMONS IP LAW
14739 S. Vermont Ave.
Gardena, CA 90247
Telephone: (213) 500-1178

DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76)

Title of
Invention

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 14/503,142

filed on 10/23/2014

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.

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LEGAL NAME OF INVENTOR

Inventor: Ezra Eddie Bakhash

Date (Optional): 11/3/2014

Signature: Ezra Eddie Bakhash

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.

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SYSTEM AND METHOD FOR PROVIDING THREE-DIMENSIONAL GRAPHICAL USER INTERFACE

5 CROSS-REFERENCE TO RELATED APPLICATION

This application claims priority pursuant to 35 U.S.C. § 119(e) to U.S. Provisional Application Number 60/717,019, filed September 13, 2005, which application is specifically incorporated herein, in its entirety, by reference.

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BACKGROUND OF THE INVENTION

15 1. Field of the Invention

The present invention is directed toward graphical user interfaces for operating and accessing information on a computer, and more particularly, to a three-dimensional ("3D") interactive computing interface and sorting interface comprising information from real-time and static sources, including, but not limited to, meta search results from the Web; information from
20 APIs, webservices, search engines, application programs, and networks; and files on the end user's desktop.

2. Description of Related Art

Currently, people use computers by inputting information into the computer to achieve a given output. Often this can be a series of tedious steps (mouse clicks and keyboard inputs) to
25 run applications and documents or navigate to information. To get to new computing

experiences, people often have to close their current applications and documents, hide them or overlap them on a finite desktop by drawing them on top of each other, and then mine through folders within folders to find them again at a later date. The user's desktop is finite, and one must redo the same tasks over and over again. This wastes time by (i) requiring many mouse

5 clicks to open and close documents, (ii) requiring one to remember all the combinations of programs and documents one might need for a given purpose and (iii) requiring one to create elaborate hierarchical folder systems to aid in the process of storing and recalling applications and documents. This is primarily due to the limited space the end user has on their desktop.

People currently compute within operating systems that present computer output, such as

10 documents, applications, and operating system's interface in a 2D (two-dimensional) visual display. After initially being loaded into the computer by the boot program, the operating system controls all the other programs in a computer. Typically, the component of the operating system that summons the style in which this output is displayed is called the GUI or graphical user interface. A successful GUI will use screen presentations including metaphors that utilize

15 graphic elements such as icons to make an operating system's input and output easier to manage. Most computer operating systems incorporate a GUI that utilizes two-dimensional graphics to capture, process, and output all input from an end user in a 2D form — having height and width only.

This output is usually confined within a window that is drawn on a finite-sized desktop,

20 i.e., the working area of a computer, that has a given length and width. When the computer's output exceeds this finite working graphical area, elements of the GUI (the windows) are typically drawn on top of each other such that the GUI components overlap one another other. In some operating systems, a shadow is drawn beneath these overlapping windows on the desktop to make them appear as if they have depth. This technique allows an end user to identify the

25 overlapping windows more easily.

We live in a 3D (three-dimensional) world where we see that objects not only have a horizontal position (x) and vertical position (y) but also have depth (z) that is also known as time, according to the three-dimensional coordinate system of mathematics. This notion of expressing depth or time in a visual computer metaphor is important for the creation of a visual history of

the end user's computing sessions. By plotting new output of the computer (instead of replacing) in a virtual space that does not overlap or substitute what exists on the finite desktop, a new virtual space through depth and time is created. For example, if one were to pull up the webpage for the URL <http://www.yahoo.com>, and then click on a hyperlink (e.g., finance), the current webpage in its window would be replaced by the webpage for Yahoo! finance.

3D has shown itself in computing primarily in the following areas: (1) games, (2) CAD/medical visualization, and (3) virtual worlds. A virtual world is a computer-simulated environment that its users can inhabit and interact with via avatars. This habitation usually is represented in the form of two- or three-dimensional graphical representations of humanoids (or other graphical or text-based avatars).

The navigation window of many desktop operating systems use controls and buttons to allow end users to navigate to other folders and windows in the hierarchical structure of the file system. Often, in navigating to new windows, the new windows replace the display of the current window. Accordingly, it would be very desirable to provide an improved graphical user interface that allows the user to efficiently navigate through a virtual space wherein groups of windows can be easily organized, stored, and retrieved.

SUMMARY OF THE INVENTION

The present invention addresses the shortcomings of the prior-art systems and methods. In particular, the present invention is directed to a system and method for providing an improved 3D graphical user interface.

In accordance with one aspect of the embodiments described herein, there is provided a graphical user interface that uses the two-dimensional ("2D") display of a user's computer to display three-dimensional ("3D") objects in a simulated real-time 3D immersive Cartesian space.

In one embodiment, there is provided a system whereby new computing output occupies new virtual space near the original output, without losing the original output. When an end user clicks on a hyperlink on the webpage, there appears in the virtual space a new webpage that is linked to but does not replace the current webpage in its window; rather, the new webpage is drawn in a new virtual space. This way, the end user can visit past visual computing moments in time.

In accordance with another aspect of the embodiments described herein, there is provided a method for providing a three-dimensional graphical user interface, comprising receiving an input from an end user, capturing computing output from at least one computer source in response to the received end-user input, and presenting the computing output as at least two
5 objects within a three-dimensional virtual space displayed to the end user.

In one embodiment, the method further comprises generating a timeline that includes an icon for each object presented within the virtual space, wherein the icons are organized in linear chronological order according to when the objects were presented within the virtual space and displaying the timeline within the virtual space. In another embodiment, the method further
10 comprises providing a database module for storing and categorizing data regarding each object presented within the virtual space, providing a hyperlink within the database module to respective viewpoint of each object presented within the virtual space, and displaying the data regarding one or more of the objects within the database module presented along with virtual space.

In accordance with another aspect of the embodiments described herein, there is provided a system for providing a three-dimensional graphical user interface, comprising a display screen, an input device for receiving an input from an end user, a processor module operatively coupled to the display screen and the user input device, and a memory module operatively coupled to the
15 processor module. The memory module preferably comprises executable code for the processor to capture computing output from at least one computer source in response to the received end-user input and present the computing output as at least two objects within a three-dimensional virtual space displayed on the display screen.
20

In one embodiment, the memory module further comprises executable code for the processor to generate a timeline that includes an icon for each object presented within the virtual
25 space, wherein the icons are organized in linear chronological order according to when the objects were presented within the Cartesian space, and display the timeline within the virtual space. In another embodiment, the memory module further comprises executable code for the processor to provide a database module for storing and categorizing data regarding each object presented within the virtual space, provide a hyperlink within the database module to respective

viewpoint of each object presented within the virtual space, and display the data regarding one or more of the objects within the database module presented along with virtual space.

In accordance with another aspect of the embodiments described herein, there is provided a system for providing a three-dimensional graphical user interface in a computer network, comprising a server connected to the computer network and a user-interface application executing in association with the server to provide the functions of receiving an input from an end user, capturing computing output from at least one computer source in response to the received end-user input, and presenting the computing output as at least two objects within a three-dimensional virtual space displayed to the end user.

In one embodiment, the user-interface application executing in association with the server further provides the functions of generating a timeline that includes an icon for each object presented within the virtual space, wherein the icons are organized in linear chronological order according to when the objects were presented within the Cartesian space, and displaying the timeline within the virtual space. In one embodiment, the user-interface application executing in association with the server further provides the functions of: providing a database module for storing and categorizing data regarding each object presented within the virtual space, providing a hyperlink within the database module to respective viewpoint of each object presented within the virtual space, and displaying the data regarding one or more of the objects within the database module presented along with virtual space.

In accordance with another aspect of the embodiments described herein, there is provided a network system for providing a three-dimensional graphical user interface, comprising: a computer-server network comprising a plurality of servers in communication with each other; at least one display screen operatively coupled to the computer-server network; at least one input device for receiving an input from an end user, the input device being operatively coupled to the computer server network; and a software module for providing a series of screen displays to the end user, the software module being accessible by one or more of the servers of the computer-server network. The software module preferably comprises instructions for directing the servers to capture computing output from at least one network source in response to the received end-

user input and to present the computing output as at least two objects within a simulated three-dimensional Cartesian space displayed on the display screen.

5 In one embodiment, the software module further comprises instructions for directing the servers to generate a timeline that includes an icon for each object presented within the Cartesian space, wherein the icons are organized in linear chronological order according to when the objects were presented within the Cartesian space and to display the timeline within the Cartesian space. In another embodiment, the software module further comprises instructions for directing the servers to provide a database module for storing and categorizing data regarding each object presented within the virtual space, to provide a hyperlink within the database module
10 to respective viewpoint of each object presented within the virtual space, and to display the data regarding one or more of the objects within the database module presented along with virtual space.

In accordance with another aspect of the embodiments described herein, there is provided a computer-readable recording medium for storing a computer program that makes a computer
15 execute: receiving an input from an end user; capturing computing output from at least one computer source in response to the received end-user input; and presenting the computing output as at least two objects within a simulated three-dimensional Cartesian space displayed to the end user.

In one embodiment, the computer program makes the computer generate a timeline that
20 includes an icon for each object presented within the Cartesian space, wherein the icons are organized in linear chronological order according to when the objects were presented within the Cartesian space, and display the timeline within the Cartesian space. In another embodiment, the computer program makes the computer provide a database module for storing and categorizing data regarding each object presented within the virtual space, provide a hyperlink within the
25 database module to respective viewpoint of each object presented within the virtual space, and display the data regarding one or more of the objects within the database module presented along with virtual space.

In accordance with another aspect of the embodiments described herein, there is provided a 3D graphical user interface that takes a user from one computing place to another while

creating the illusion of infinite space in three dimensions ("3D"). By capturing the output of the user's traditional two-dimensional desktop, the 3D GUI stages this output seamlessly in a 3D space by plotting the windows or other graphical representations of programs in 3D. In one embodiment of the present invention, the 3D GUI anticipates what the user may seek next (for example, the next webpage in a search result), eliminates dormant computing time, and puts the user in a reduced-click computing environment by automatically plotting the new computing experience while visually recording the old.

Because the 3D GUI creates the illusion of infinite space in 3D, it can create a visual history of the user's computing session, whereby the user can visit past visual computing events (or a snapshot in time) by simply navigating to previously recorded states or viewpoints. Accordingly, the 3D GUI can function as a visual chronological history of the user's computing session, whereby the user can name the computer experience they are currently having through their position (or viewpoint) in a 3D space and revisit it by recalling the name or title at a later time. The 3D GUI automates computing by remembering where the user left off last — visually — such that the next time the user requires the same series of inputs to achieve that same given output, the 3D GUI will navigate the user through a 3D space that is the visual history of where the user last left off.

In one embodiment, the 3D GUI can run as an Active X control within a browser window on the desktop of a computer (in conjunction with a web-browser program, such as Internet Explorer). In addition, the present invention can run as a stand-alone application or embedded within an HTML page. For example, a 3D virtual space (that was saved in the 3D GUI) of a series of photographs of a model wearing different jewelry styles can be embedded on a jewelry e-commerce site by embedding the code for the Active X control version of the 3D GUI into the markup language of the HTML page according to the syntax for the component.

The program may run, for example, in conjunction with Internet Explorer, other web browsers, or stand-alone applications. The 3D GUI allows the user to create a 3D space on their computer or the web. Through programmatic access or helper applications (e.g., represented by interactive icons within the 3D space), the 3D GUI allows the user to locate data, applications, files created by applications, desktop windows, HTML pages, and 3D applications, and it

facilitates or invites the graphical output of these files and programs in their interactive 3D spaces. In general, the present invention displays graphics from the user's 2D finite desktop in 3D infinite space while retaining the functionality of the 2D programs and documents. Users will be able to use these files and applications, without restrictions, within 3D spaces.

5 In accordance with another aspect of the embodiments described herein, the 3D GUI allows the user to create one or multiple 3D spaces on the fly to facilitate the graphical output of files and applications. For example, the user may have the option of linking multiple 3D spaces together, thereby creating a network of 3D spaces. Regardless of where the files or applications are located (e.g., within the same folder, in a subfolder, on a different computer, within the
10 network, on a different network, across the Internet, etc.), the user will have full access to the file through its native program, or to the website through the default browser. In this way, the 3D GUI allows the output of disparate computer programs to visually converge in one expandable, changeable 3D space.

A more complete understanding of the disclosed 3D graphical user interface will be
15 afforded to those skilled in the art, as well as a realization of additional advantages and objects thereof, by a consideration of the following detailed description of the preferred embodiment. Reference will be made to the appended sheets of drawings which will first be described briefly.

BRIEF DESCRIPTION OF THE DRAWINGS

Figures 1A-1C provide a block diagram detailing one embodiment of the process for
20 providing in improved three-dimensional graphical user interface.

Figure 2 is a flowchart illustrating the process for cyclically redrawing a 3D Cartesian space based on user input.

Figure 3 is a flowchart illustrating an exemplary approach to processing information
25 achieve interactive composite texture mapping, as well as interactivity and persistency, in a virtual space.

Figures 4A and 4B provide a flowchart illustrating a process for creating a 3D output of webpages or other content from hyperlinks.

Figure 5A is a block diagram of one embodiment of a system for providing a 3D GUI.

Figure 5B is a block diagram of one embodiment of a system for providing a 3D GUI in a computer network.

Figure 5C is a block diagram of one embodiment of a network system for providing a 3D GUI.

5 Figure 6 is a block diagram detailing a process for sorting an array of webpages in a 3D stack.

Figure 7 is a flowchart showing a process for sorting an array of webpages in a 3D stack.

Figure 8 is a flowchart for a process and system wherein multiple users can simultaneously vie and modify virtual spaces in collaborative fashion.

10 Figure 9 illustrates one embodiment of a 3D GUI application window.

Figure 10 illustrates another embodiment of a 3D GUI application window.

Figure 11 illustrates an embodiment of a 3D GUI application window with an opened database module.

15 Figure 12 illustrates an arrangement of windows within the virtual space of one embodiment of a 3D GUI application window.

Figures 13A and 13B illustrate another embodiment of a 3D GUI application window with an opened database module.

Figure 14 illustrates an embodiment of a 3D GUI having a paintbrush feature.

20 Figure 15 illustrates an exemplary arrangements of windows and timeline icons in a 3D GUI application window.

Figures 16A and 16B illustrate exemplary arrangements of 3D stacks and timeline icons in a 3D GUI application window.

Figures 17A-17C illustrate exemplary arrangements of windows and timeline icons in a 3D GUI application window.

25 Figure 18 illustrates another exemplary arrangement of 3D stacks and timeline icons in a 3D GUI application window.

Figure 19 illustrates an embodiment of a 3D GUI that delivers advertisements into the virtual space for the end user.

Figure 20 shows a 3D GUI with the Favorites helper application opened within the database module.

Figure 21 shows a 3D GUI with the Searches helper application opened within the database module.

5 Figure 22 shows a 3D GUI with an exemplary helper application for a music file opened within the virtual space.

DETAILED DESCRIPTION OF ILLUSTRATIVE EMBODIMENTS

The present invention satisfies the need for a system and method of providing an improved three-dimensional graphical user interface. In particular, the present invention is
10 directed to a system and method for displaying a three-dimensional graphical user interface by receiving an input from an end user, capturing computing output from at least one computer source in response to the received end-user input, and presenting the computing output as at least two objects within a three-dimensional virtual space displayed to the end user. The method preferably further comprises generating a timeline that includes an icon for each object presented
15 within the virtual space, wherein each of the icons are organized in linear chronological order according to when the objects were presented within the virtual space. In the detailed description that follows, like element numerals are used to describe like elements illustrated in one or more of the figures.

Described herein is a system for (i) selectively capturing computing output and
20 information (webpages, applications, documents, desktops and/or anything that can be visualized on a computer) from disparate sources (local computer or network); (ii) allowing the captured output and information to visually converge by staging or drawing it in a common 3D virtual space; (iii) organizing this staged output in a meaningful way utilizing a novel 3D GUI to allow end users an easier and more efficient way to organize, visualize, search, and sort this captured
25 output and information; and (iv) sharing these virtual spaces by saving them, publishing them to the web, e-mailing them, or allowing multiple users to collaborate by simultaneously viewing and modifying them.

Described herein is a system for creating and managing this new 3D computing experience, based on the existing infrastructure of a 2D operating system's output. A preferred

embodiment of this system, diagrammed in Figures 1A-1C, is described in further detail below. In accordance with one aspect of the embodiments described herein, there is provided a system and method for creating a 3D interactive computing interface and sorting interface that includes information from real-time and static sources, including meta search results from the web; information from APIs, webservices, search engine outputs, application program outputs, and networks; and files on the end user's desktop/laptop in a unique interactive 3D interface.

"Meta search" refers to a search wherein a query is submitted to more than one search engine or directory, and wherein results are reported from all the engines, possibly after removing duplicates and sorting. "API" refers to an interface that enables one program to use facilities provided by another, whether by calling that program or by being called by it. At a higher level, an API is a set of functionality delivered by a programming system, and as such, the mix of APIs in a particular system explains what that system can do. "Web" refers a network of servers linked together by a common protocol, allowing access to millions of hypertext resources. It is also known as WWW, W3 and the World Wide Web. "Webservices" refers to a standard approach to interoperating between different software applications, running on a variety of platforms and frameworks, over the Internet. It is software that runs over a network and provides information services based on XML standards that are accessed through a URI (Universal Resource Identifier) address and an XML-defined information interface. "Real time" refers to a transmission or data-processing mode in which the data is entered in an interactive session where an application can respond fast enough to affect later data input.

The invention provides a Graphical User Interface (GUI) that uses the two-dimensional display of an end user's computer to display information (e.g., webpages and other information mapped onto 3D objects) in a simulated real-time 3-D immersive Cartesian space. The program runs within web browsers (e.g., Internet Explorer and Mozilla Firefox) or as a stand-alone application compatible with the local operating system. The 3D GUI program creates the appearance of a 3-D space within a 2-D window on the desktop of a computer, as illustrated in the embodiment of Figure 10. The program can utilize a ubiquitous interactive and immersive 3D rendering browser or player which will process 3D drawing instructions based on higher-level language code (the program) written in the drawing language native to the browser.

The program creates what seems to be an infinite simulated 3-D Cartesian space within the two-dimensional display or window of an end user's computer by abiding by the visual rule of perspective whereby geometry or objects that are supposed to be closer to oneself appear larger concerning their spatial attribute and objects or geometry that are further away appear smaller, as shown in the exemplary embodiments of Figures 10-12. The program simulates a 3-D space within a 2-D window by redrawing objects in the space relative to one another as determined by their perceived distance from the viewer. Objects that are supposed to be further away are smaller whereas objects that are supposed to be closer are larger.

The program creates interactivity of the simulated real-time 3-D immersive Cartesian space. While the user is immersed in this 3D space, the program will take instructions from the user processed by the event handler presented by the Graphical User Interface initiated controls that can change their perspective or viewpoint (as defined as a location or visual perspective in the local coordinate system or three-dimensional space) by moving closer to it, away from it, changing their angle or both. Once the program receives user-initiated input to change the visual perspective of the scene, the program will redraw the scene to reflect the user-initiated input, as well as changes to the visual perspective.

In accordance with one aspect of the embodiments described herein, there is provided a system and method for providing a three-dimensional graphical user interface. With reference to Figure 5A, in one embodiment, the system 710 comprises a display screen 712 and input devices 714, 716 for receiving an input from an end user. The system 710 further comprises a processor module 718 (operatively coupled to the display screen 712 and the user input devices 714, 716) and a memory module 720 (operatively coupled to the processor module 718).

The memory module 720 preferably comprises executable code for the processor module 718 to capture computing output from at least one computer source in response to the received end-user input, and to present the computing output as at least two objects within a three-dimensional virtual space displayed on the display screen 712. In one embodiment, the memory module 720 preferably further comprises executable code for the processor module 718 to generate a timeline 340 that includes an icon for each object presented within the virtual space 300, wherein the icons are organized in linear chronological order according to when the objects

were presented within the Cartesian space 300. In another embodiment, the memory module 720 preferably further comprises executable code for the processor module 718 to provide a compass or database module 440 for storing and categorizing data regarding each object presented within the virtual space, to provide a hyperlink within the database module to respective viewpoint of each object presented within the virtual space, and to display the data regarding one or more of the objects within the database module 440 presented along with virtual space 300.

In accordance with another aspect of the embodiments described herein, there is provided a system for providing a three-dimensional graphical user interface in a computer network. With reference to 5B, in one embodiment, the system 730 comprises a server 732 connected to the computer network (734, 736, 738, 740) and a user-interface application executing in association with the server 732 to provide the functions of receiving an input from an end user; capturing computing output from at least one computer source in response to the received end-user input; and presenting the computing output as at least two objects within a three-dimensional virtual space displayed to the end user. In one embodiment, the user-interface application executing in association with the server 732 preferably provides the functions of generating a timeline 340 that includes an icon for each object presented within the virtual space 300 wherein the icons are organized in linear chronological order according to when the objects were presented within the Cartesian space 300 and displaying the timeline 340 within the virtual space 300. In another embodiment, the user-interface application executing in association with the server 732 preferably provides the functions of providing a compass or database module 440 for storing and categorizing data regarding each object presented within the virtual space, providing a hyperlink within the database module to respective viewpoint of each object presented within the virtual space, and displaying the data regarding one or more of the objects within the database module 440 presented along with virtual space 300.

In accordance with another aspect of the embodiments described herein, there is provided a network system for providing a three-dimensional graphical user interface. With reference to 5C, in one embodiment, the network system 750 comprises: a computer-server network 751 comprising a plurality of servers (752, 754, 756, 758) in communication with each other; at least one display screen 712 in operative communication with or operatively coupled to the

computer-server network 751 (directly or indirectly); at least one input device (714, 716) for receiving an input from an end user, the input devices (714, 716) being operatively coupled to the computer-server network 751; and a software module 760 for providing a series of screen displays to the end user, the software module 760 being accessible by one or more of the servers
5 (752, 754, 756, 758) of the computer-server network 751.

The software module 760 preferably comprises instructions for directing the servers (752, 754, 756, 758) to capture computing output from at least one network source in response to the received end-user input, and present the computing output as at least two objects within a simulated three-dimensional Cartesian space 300 displayed on the display screen 712. In one
10 embodiment, the software module 760 further comprises instructions for directing one or more of the servers (752, 754, 756, 758) to generate a timeline 340 that includes an icon for each object presented within the Cartesian space 300, wherein the icons are organized in linear chronological order according to when the objects were presented within the Cartesian space 300, and to display the timeline 340 within the Cartesian space 300. In another embodiment, the software
15 module 760 further comprises instructions for directing one or more of the servers (752, 754, 756, 758) to provide a compass or database module 440 for storing and categorizing data regarding each object presented within the virtual space, to provide a hyperlink within the database module to respective viewpoint of each object presented within the virtual space, and to display the data regarding one or more of the objects within the database module 440 presented
20 along with virtual space 300.

Within the 3D immersive space that the 3D GUI creates, the user's viewpoint can be changed, where "viewpoint" is defined as a specific location or perspective in the local coordinate system (3D space) from which the user can view the scene or file. As such, an interface called a compass 440 can be used to help the user name, map, and navigate the
25 viewpoints in a 3D space, as illustrated in the exemplary embodiment of Figure 11. Here, the compass or database module 440, which is located to the left of the display of the virtual space 300, can be used to record the user's current viewpoint at any time while immersed in the 3D space. For example, the entry 442 shows the viewpoint "Yahoo!" indexed in the compass 440. The compass 440 can be used to assign one or multiple names to the recorded viewpoint, and/or

to store the names of viewpoint(s) as one name in a collection of names in a relational database. The names constitute a map of the 3D space as well as a method to navigate the map. For example, in one embodiment, there is provided a linear map, called a timeline 340, having a plurality of icons (502, 504, 506, 508). The icons 502, 504, 506, 508 in the timeline represent viewpoints indexed in the compass 440 and correspond to the windows 510, 512, 514, 518, respectively. The compass can also serve as the user interface to the relational database of stored names/viewpoints. The compass can have drop-down menus, wherein each menu is a record (in the relational database) that stores the name(s) and/or fields of viewpoints assigned by the user or automatically generated by the application program. The compass can be expandable to facilitate an infinite array of menus or records, thereby creating a table or group of records.

In the embodiment shown in Figure 11, the explorer pane of the 3D GUI window serves as the compass 440 as it pertains to the Windows environment. In this pane, one can see tabs labeled Saved Spaces 450, Desktop 451, Favorites 452, Web Browsers 453, Searches 454, Images Searches 455, Movies Searches 456, Searches 457, Pictures 458, Sound/Music 459, 3D 460, and Memos 461. These tabs represent programmatic access or helper applications, which are described in further detail below.

As shown in the embodiment of Figure 11, the tab called Web Browsers 453 is selected, revealing the Web Browsers menu below it, and the name of the viewpoint of the webpage (shown in the main window or virtual space) whose URL is <http://www.yahoo.com> and whose viewpoint name as it relates to the compass 440 is "http://www.yahoo.com - Yahoo!" 442. More specifically, listed in the menu of the compass 440 are the names of four viewpoints of the webpages (shown in the main window or virtual space) whose URLs are <http://www.yahoo.com>, <http://www.google.com>, <http://www.ebay.com>, and <http://www.msn.com> and whose viewpoint names as they relate to the compass (and are listed as such) are "http://www.yahoo.com - Yahoo!" 442, "http://www.google.com - Google" 443, "http://www.ebay.com - ebay" 444 and "http://www.msn.com - MSN" 445. In this way, the end user can use the programmatic access or helper applications (450-461) to have their content staged in a 3D virtual space, can have the viewpoint representation of their content automatically indexed and organized in the compass

440, and can have a linear representation of the graphical events in the compass 440 indexed on the timeline 340 via 3D icons (502, 504, 506, 508).

In a preferred embodiment of the present invention, the helper applications are adapted to display the output of files and programs within windows (e.g., within the 3D spaces). In an alternate embodiment of the present invention, the programmatic access or helper applications are adapted to display information via customized interfaces whose graphical designs look like the real-world objects they seek to represent. For example, with reference to the embodiment of Figure 22, a user may run a helper application or programmatic access for a music file. After clicking on the icon for the helper application for sounds/music, the 3D GUI will prompt the user to locate the music file on either their local computer, a networked computer, or the World Wide Web. The helper application will then draw the interface (680, 682, 684) for the music file, preferably in the form of a compact disc, in the 3D space (300). The user can then interact with the graphical representation of the music file (e.g., the graphical representation of a CD) to run and play the music file shown in interface 690.

The naming of stored viewpoints can exist as a single name in one menu in the compass or as a combination of multiple names in multiple menus. In one embodiment, each viewpoint is associated with only one name in each menu. This way, the user can select multiple names in multiple menus to create meaningful combinations of names that dynamically retrieve stored viewpoints based on the relationship of names selected. The user can edit the menus of the compass, thereby adding or removing categories or expanding the menus. All of this can happen in real time, as the user authors and interacts with his or her 3D scene(s). The user may also be able to combine two or more disparate compass interfaces, thereby creating a larger virtual map and navigation system for one or more 3D spaces. A named viewpoint in the compass can link to a viewpoint in the current scene, a viewpoint in another 3D file on the local desktop, or a viewpoint in another 3D file hosted on the World Wide Web. This way, the compass creates a means of navigation that creates abstraction between viewpoints in any given files (local desktop files, files on the web, etc.).

In one embodiment of the present invention, the 3D GUI is further adapted to generate custom 2D maps of stored viewpoints and their names for specific menu items in the compass.

Specifically, the 3D GUI creates 3D icons for each viewpoint named and created via the compass and plots them into the 3D space with the respective names assigned to them as signposts, allowing the user to map all of the viewpoints for a 3D space and to draw lines among the viewpoints to see relationships among disparate viewpoints.

5 With reference to the embodiment of Figure 11, there is provided a linear map 340 (drawn on the bottom margin of the virtual space 300), in an infinite possibility of maps, whereby the 3D GUI is adapted to express the map of stored viewpoints as 3D icons with their names (should the end user mouse-over them) for specific menu items in the compass 440 expressed as a timeline 340. Here, the timeline 340 is a map which represents the linear progress
10 of animation from the first viewpoint to the last viewpoint, should the end user click each 3D icon in such a sequence, originally created and indexed in the compass 440. In essence, each 3D icon (502, 504, 506, 508) is a hyperlink or graphic that jumps to a new location or viewpoint (when clicked).

 The present system utilizes a unique graphical user interface called a timeline that allows
15 end users to (i) index and keep track of, (ii) navigate to and (iii) replay every visual event and important action that occurs within a virtual space as it is happening (on-the-fly) by drawing icons for these visual events in linear chronological order within the virtual space (see Figure 18). As used herein, “visual event” refers to a change in appearance to the 3D virtual space typically caused by adding information and output captured from other sources (automatically
20 through programmatic access or manually by the end user) and drawn within the 3D virtual space (see Figures 1 and 2 — boxes 22, 24, 26).

 In one embodiment, each new action, initiated as a result of input from the end user or otherwise initiated by programmatic access, that results in a visual event, is automatically stored in the compass and then plotted as an icon on a dynamic timeline linear map 340 (see Figures 11,
25 12, and 13A). Those skilled in the art will understand that it would be impossible to list every possible kind of computing event that would constitute a visual event that would be drawn as an icon on the timeline 340. In one embodiment (shown in Figures 11, 12, and 13A), the timelines 340 are drawn horizontally on the bottom margin of the page in a straight line. In another

embodiment (not shown), the timeline can be drawn vertically on the left or right margin of the page.

Each item plotted in the timeline is an icon that represents the action the end user initiated to cause a visual event for which the icon on the timeline was created. For example, with respect to a horizontal timeline, items to the left of a given item on the timeline occurred before the given item, whereas items to the right of the given item on the timeline occurred after the given item. With reference to the illustrative embodiment of Figure 18, the visual event (610) for which icon 612 was drawn on the timeline 340 occurred before the visual event (620) for which icon 622 was drawn on the timeline 340. Similarly, the visual event (630) for which icon 632 was drawn on the timeline 340 occurred after the visual event (620) for which icon 622 was drawn on the timeline 340.

This way, end users can go back to past computing experiences (what was drawn at some viewpoint or x,y,z coordinate in the virtual space at the time an icon was created and added to the timeline) by clicking any icon on the timeline (in a linear order, random order, etc.) which binds the end user to a viewpoint for which information regarding the visual event is plotted within the virtual space; in this case in its own unique 3D or visual stack in the current embodiment.

With reference to Figure 13A, in one embodiment, there is provided a helper application called Desktop 451 that allows the user to drag and drop items shown in the menu 441 of the database module 440 into the virtual space 300. A dynamic linear map (drawn on the bottom margin of the virtual space) in the form of the timeline 340 is provided to express the actions of the end user's input as icons on the timeline 340. Should the user click any icon on the timeline 340, the user's viewpoint will change to the first item in the 3D stack (i.e., stack visualized in 3D) created for the action or visual event. Ultimately, the timeline 340 is a linear map for all the items or output the helper applications (450-461) capture and draw within the 3D GUI's stage or virtual space 300.

In another embodiment, illustrated in Figure 16A, an end user selects the helper application called Yahoo! Search (520), and types a search term (e.g., "Albert Einstein" or "Thomas Edison") into the helper application's text input field (530). The helper application gathers the information for the search request through a webservice or other technique (Figures

4A and 4B) and plots the search results in a unique 3D stack 560, which is represented in the timeline 340 by an icon 562. The plotting of the search results in its own 3D stack by a helper application constitutes a visual event or change to the 3D virtual space for which an icon is drawn and added to the timeline.

5 An end user can select another helper application called Yahoo! Image Search (520) and enter the same search term in the search field (530) of the Yahoo! Image Search text input field. The Yahoo! Image Search helper application gathers the information for this search request by interfacing with Yahoo!'s webservices and then plots the search results in its own unique 3D stack 570 translated to the right (+x in the 3D Cartesian virtual space) of the previously plotted
10 3D stack or stack visualized in 3D. In addition, the drawing of the new visual stack within the virtual space constitutes a visual event whereby another icon 572 representing stack 570 is added to the timeline (to the right of the last icon 562).

 With reference to Figure 16B, should an end user create a web-browser page within the virtual space (Figures 1A-1C — box 60) such as <http://www.google.com> through the “address”:
15 command-line interface 464, whereby an end user can input a URL and have it added to the virtual space (Figures 1A-1C — box 60), the new webpage would be drawn in its own 3D stack 580 translated to the right (+x in the 3D Cartesian virtual space) of the previously plotted 3D stacks 560, 570. This would add another icon 582 to the timeline (to the right of the last icon 572). If the end user navigated within the virtual space and changed their viewpoint and selected
20 the “record viewpoint” feature of the 3D GUI system (Figures 1A-1C — box 50), the would records the x, y, and z position (viewpoint) within the virtual space, adds this to the database module, such as under a tab called favorites.

 As shown in Figure 20, when the user clicks on the “record viewpoint” icon 650, the system records the x, y and z position (“viewpoint”) within the virtual space, and adds this to the
25 compass 440 as an item 652 under the tab called favorites 452. The system preferably allows the user to name the viewpoint and draw a 3D icon 654 within the 3D virtual space indicating the position of the stored viewpoint within the virtual space as a signpost. The system preferably draws the 3D icon 656 for the newly created viewpoint on the timeline 340 translated to the right of the previously drawn icon on the timeline as this would be categorized as a visual event. In

this way, each visual event added to the virtual space is archived and expressed on-the-fly on the timeline through its icon.

Clicking each of the icons on the timeline from left to right in succession would result in successive changes to the end user's viewpoint. In this way, visual events within the virtual space are archived as they happen and expressed on the timeline in linear order. The user can travel back in time by simply clicking the icon on the timeline that represents the "visual events" that were drawn in the virtual space, for which the icon on the timeline was created. Clicking the item on the timeline would change the end user's viewpoint to the position in the virtual space where the visual events were originally drawn; in this case, the first item in each 3D stack.

Within the 3D GUI system, the addition of items to the timeline is dynamic and happens when new visual events are created. Furthermore, the timeline becomes an important component of the GUI system when a virtual space is viewed by an end user other than its author (either through e-mail or visiting a published URL of the saved space on a server). Upon viewing for the first time a virtual space that another end user authored, an end user can click the icons on the timeline from left to right in linear fashion and experience in chronological order what the author of the virtual space experienced as they created it. In this way, the timeline captures or records the visual changes of a virtual space in chronological order so others viewing it can re-experience the virtual space by clicking the icons on the timeline in succession from left to right.

The 3D GUI preferably utilizes an application program or run-time environment that is used to execute code programmed for it based on this system. For example, the program can utilize an interactive and immersive 3D-rendering browser that processes 3D drawing instructions based on higher-level language code (the program) written in the drawing language native to the browser program. There are numerous programming languages as well as run-time environments/3D-rendering browsers that can be used to achieve this. The run-time environment or browser can be (1) a stand alone application, (2) an Active X control or object within a web browser, and/or (3) an embedded object in webpages.

This system or 3D interactive computing interface will create what is known as a virtual space on the computer desktop for which it runs through the browser program. A virtual space is simply a program (running within the run-time environment/3D-rendering browser) simulating a

3D space within a flat 2D display by redrawing objects in the virtual space relative to one another as determined by their perceived distance from the viewer, Figure - 2. Objects that are supposed to be further away are drawn smaller whereas objects that are supposed to be closer are drawn larger.

5 Furthermore, the subject matter of a simulated 3-D Cartesian space drawn within the two-dimensional display or Window of an end user's computer is preferably redrawn in a cyclical fashion (Figures 1 and 2 — boxes 22, 24, 26) to refresh the scene such that changes to the objects drawn must happen quickly enough based on the responses of the end user such that the experience feels truly interactive.

10 The information that is responsible for a virtual space is not unlike any other file where the information that composes the file can be stored, named, and amended at will (Figures 1A-1C — box 94). In addition, because a 3D virtual space is used (1) to express the graphical user interface it utilizes for input and output and (2) as a stage to visualize the information to be sorted and searched on the system, many of the commands that are part of an operating system's
15 file system can also apply to saved virtual spaces. In addition, each saved virtual space (Figures 1A-1C — box 96) can act as a container for all of the items that were added to the virtual space through the helper applications (Figures 1A-1C — boxes 32, 34, 36, 38, 40) that act as a bridge allowing information to stream into the system's virtual spaces. As one of the more popular functions of the Internet is to download and transfer files from one computer to another, the
20 notion of utilizing a virtual space to output and add files, content, and information into as a medium to e-mail or transfer these files is novel and useful. Those skilled in the art will realize that once a virtual space is archived as a file, it can easily be e-mailed or sent via FTP to another server or computer as easily as any other e-mail or file.

25 In the current computing paradigm, e-mail messages are sent to one another as messages with attachments of binary files such as pictures, videos, sounds, and executable files. Once an e-mail message is received, to view an attachment, the recipient must (i) select the file, (ii) decode each file using their e-mail software, (iii) download it, and (iv) launch the file in its own new window using a separate program that created it or can view it. In contrast, in the 3D GUI, all the files, such as pictures, video, sounds, webpages, or other content, that are added to a

virtual space (see Figures 1A-1C — boxes 32, 42, 50, 58, 60, 62, 72, 74, 84, 86, 88, 90, 92, 94, 104) can be e-mailed as a whole in one file. Once the recipient of the e-mail receives the e-mail, they can access the virtual space with all of its content with one click, by clicking the hyperlink to the saved space whether it is (i) attached to the e-mail or (ii) saved on a server (Figures 1A-1C — box 98). Doing so opens the virtual space and stages all of the content without the end user needing to open files separately one by one.

More specifically, once the virtual space is received via e-mail or downloaded to an end user's computer from a server or via FTP on the Web, the hyperlink to the saved space in the webpage responsible for showing the e-mail or FTP file sees the embedded HTML <object> tag for the Active X control or application that can execute the e-mailed or transferred file with one click. In general, this tag contains information needed to execute the control, which can be located on the GUI server or elsewhere. In this way, the 3D GUI system (configured in this embodiment of the invention as an Active X control) can run on any computer, allowing saved virtual 3D spaces with an end user's content to be sent to any other computer via e-mail, file transfer protocol or other method and have all the content within the virtual space accessible to an end user with one click.

In one embodiment of the present system, the 3D GUI program allows the end user to publish their spaces to a GUI server (Figure 8 — box 282), such as by clicking a publish button or the like within the program. The 3D GUI program saves the file by uploading it or pushing it to the server and creates an address for this file as a URL (Figure 8 — boxes 284 and 286). One or multiple users (Figure 8 — boxes 290₁ – 290_n) could visit this published URL at the same time. Visiting this URL would launch the 3D GUI Active X control on each of the end users' client computers and independently download the most recent version of the file to each of the multiple users' computers (Figure 8 — box 288) so they could interact with and use the virtual space. Initially, each end user would be executing the same version of the virtual-space file initially downloaded on their client computer. The server would keep an index of all the end users who downloaded the file (known as the "multiple users") through network communication among the client(s) and the server computer.

Any change through a visual event to any of the multiple users' virtual spaces would be journalized in its own file. Here, visual event refers to a change in appearance to the 3D virtual space, typically caused by adding information and output captured from other sources and drawn within the 3D virtual space (Figure 2 — box 22, 24, 26). The term "journalizing" refers to a file system that logs changes to a journal before actually writing them to the main file. Each file for each journalized change for each new visual event from every client computer would be pushed to the server (Figure 8 — box 296), through a network connection, and added to the original file as a journal entry. Once the server received a journal entry to a file it would push the additions to the original file to all the multiple users' client computers except the client computer for which the change originated. In this way, the new visual events or journalized files from all the multiple users would be updated to the virtual spaces of all the multiple users. This process preferably recurs quickly in a cyclical fashion, thereby allowing all the changes from all of the multiple users to be reflected in real time.

The 3D GUI program provides interactivity of the simulated real-time 3-D immersive Cartesian space. While the end user is immersed in this 3D space, the program will take instructions from the user processed by the event handler presented by the Graphical User Interface initiated controls that can change their perspective or viewpoint, which refers to a location or visual perspective in the local coordinate system or three-dimensional space. As such, the end user will be able to achieve multiple, unique viewpoints in a virtual space by moving closer to or away from an object in the virtual space (e.g., a webpage), and/or changing the angle or perspective of the webpage in the virtual space.

In one embodiment of the invention, the Graphical User Interface control that assists the end user in changing their perspective in the virtual space is called a navigator, and it can be seen in Figures 11 and 12. By clicking on the icons on the navigator, the end user can change their perspective or viewpoint in the 3D virtual space. In the embodiment shown in Figures 11 and 12, (1) the "+" button on the navigator moves the end user forward along the z-axis in the 3D Cartesian space; (2) the "-" button on the navigator moves the end user backward along the z-axis in the 3D Cartesian space; (3) the "up arrow" moves the end user up along the y-axis in

the 3D Cartesian space; (4) the “down arrow” moves the end user down along the y-axis in the
95

3D Cartesian space; (5) the “left arrow” moves the end user left along the x-axis in the 3D
Cartesian space; and the (6) “right arrow” moves the end user right along the x-axis in the 3D
5 Cartesian space.

Once the program receives user-initiated input to change the visual perspective of the
scene, the program will redraw the scene to reflect the user-initiated input as well as changes to
the visual perspective, as illustrated in Figure 2. The program recalculates the shapes and sizes
of objects or geometry in the scene/3D Cartesian space to reflect the location or visual
10 perspective of the end user in the local coordinate system. In order to achieve a realistic
real-time experience, the program will redraw the scene in a cyclical fashion.

The event handler is a part of a computer program created to tell the program how to act
in response to a specific event (e.g., the clicking of a mouse, the dragging of a scrollbar, or the
pressing of a button). The program’s custom event-handling functions will be executed by the
15 event dispatcher, which is a part of the operating system that detects graphical user interface
(GUI) events and calls functions in the executing program to handle those events (see
en.wikipedia.org/wiki/Event_handler).

The program recalculates the shapes and sizes of objects or geometry in the scene/3D
Cartesian space to reflect the location or visual perspective of the end user (based on the input
20 gathered by the event handler) in the local three dimensional coordinate system. In order to
achieve a realistic real-time experience, the program will redraw the scene in a cyclical fashion.
In this way, the end user can control their navigation, position, and viewpoint in the 3D
immersive space, giving them the freedom to visualize any geometry within the 3D space at any
angle or viewpoint chosen (see Figure 2).

25 In accordance with one aspect of the embodiments described herein, there is provided a
method and system for creating a 3D output of webpages from hyperlinks via interactive meta
search results from search-engine outputs. With reference to the embodiment of Figures 4A and
4B, there is provided a graphical user interface, such as an input interface or helper application
(box 162) within the 3D scene, that allows the end user to input a search term or combination of

search terms once an end user is within their 3D space. The helper application or programmatic access can allow the end user to input not only the search term(s), but the source from which the search results should originate (e.g., eBay, Yahoo!, Google, e-mail, desktop, MySpace, MSN, or any other available source of information (as shown in Figures 4A and 4B — box 164).

5 Accordingly, the proper helper application must be customized to capture or interface the 3D GUI system with the origin of information. Most search engines, portals and publishers of information on the world wide web require different programmatic access techniques to expose their information through webservices to allow other systems to connect with their information. Workers who are skilled in this art will understand that slight changes must be made to bridge
10 the 3D GUI to this information without departing from the system. For example, the method can comprise connecting with <http://www.google.com> to facilitate the bridge of information into the 3D GUI system.

Similar to the way a search engine's crawler roams the world wide web by visiting hyperlinks, storing the URLs, and indexing the keywords and text of each page encountered, in
15 one embodiment, the 3D GUI program can conduct a world wide web search on-the-fly, using these search terms in the search system or website of the end user's choice by opening one 2D HTML page of the homepage of the chosen search engine (in this case <http://www.google.com> Figures 4A and 4B — box 184), drawn off screen (hidden) through the operating system's web browser control (Figures 4A and 4B — box 184) as a child window within the 3D GUI. Our
20 program will then enter the search term into the off screen text input field of the search engine's homepage (Figures 4A and 4B — box 188), emulate a carriage return, retrieve the search results (Figures 4A and 4B — box 192), parse the search results found in each HTML page, identify each hyperlink that the search engine returned to the end user as a search result, and store this in an array. In one approach, the program will open one new webpage or window in the 3D space
25 (behind the search results page) for each element of this array or each hyperlink found on the search system's results page that would display the webpage found at the URL for the given hyperlink.

If the end user conducts a new search, the program will open a new browser window with the URL of the search system of their choice off screen for each search phrase entered into the

input interface, transfer the keyword phrase to this search page as a staging area and emulate the carriage return. Once the search results appear, they can be brought into the program again. However, each new search result must have its own browser window drawn off screen and then brought back into the 3D Cartesian space.

5 In addition, it should be noted that the web browser control in the Windows operating system adds browsing, document viewing, and data downloading capabilities to applications. Applications using this control will allow the user to browse sites on the World Wide Web, as well as folders in the local file system and on a network. The web browser control is used in certain embodiments of the present invention. However, it will be noted that the 3D GUI system
10 can utilize any part of the operating system shell or other component, other than the web browser control, as the method to capture and display output from the computer.

The 3D GUI program can open one new webpage or window in the 3D virtual space (behind the search results page Figures 4A and 4B — box 202) for each element of this array or hyperlinks found on the search system's results page that would display the webpage found at
15 the URL for the given hyperlink. In this way, the 3D GUI is not unlike a search engine's crawler except here the system visualizes the actual webpages, information and hyperlinks it encounters on-the-fly in a 3D virtual space instead of storing it in a database as an index. In Figures 4A and 4B — box 202, one can identify the search results page drawn in front of two webpages. The system as a default draws each new webpage in what we call a "3D stack" (i.e., a stack
20 visualized in 3D, sometimes referred to as a 3D stack) as shown where each new webpage occupies an x,y,z coordinate similar to the position of the existing webpage; except it is drawn further into the distance along the z axis (where it appears smaller from the given perspective) and is translated on the x or y or both x, y axis to allow the end user to see multiple webpages from any given perspective. For example, in the embodiment of Figure 9, one can see a bird's
25 eye view of four 3D stacks 302, 304, 306, 308 drawn in a virtual space 300 where each 3D stack (each containing about ten items in this embodiment) represents a new search.

With reference to the embodiment of Figure 10, frames 366 and 371 provide two search results conducted using a search engine (e.g., Google). Each search results in the creation of its own 3D stack (360, 370), each stack including about ten webpages. The dynamic creation of

these 3D stacks (360, 370) in the 3D virtual space 300 is the default gestalt that the 3D GUI display engine uses to output the elements found within the 3D virtual space's organized output of information. In another embodiment, the display engine has the ability to load other custom templates to achieve one or more different gestalts (e.g., 3D stacks, etc.).

5 With continued reference to Figure 10, there is provided another embodiment of a navigator 380. By clicking on the icons on the navigator 380, such as next page 382 and previous page 384, the end user can easily change his/her perspective or viewpoint to coincide with the meaning of the buttons on the navigator 380. For example, clicking the next page 382 on the navigator 380 binds the end user to a close-up viewpoint of the next page in a 3D stack
10 (e.g., moving from page/frame/window 361 to page/frame/window 364). Additionally, (a) the + button 390 moves the end user forward along the +z axis in the 3D Cartesian space, (b) the - button 392 moves the end user backward along the -z axis in the 3D Cartesian space.

 There are also provided a group of navigation buttons 396 near the bottom of the screen. Clicking the button 324 brings up the first page of a 3D stack (e.g., page 361 of stack 360),
15 whereas button 406 pulls up the last page of a 3D stack (e.g., page 368 of stack 360). Stated another way, clicking button 398 binds the end user to a close-up viewpoint of the first page in the 3D stack, whereas clicking button 406 binds the user to a close-up viewpoint of the last page in the stack. Similarly, clicking button 400 brings up the previous page, whereas button 404 pulls up the next page in a given stack. Clicking button 402 causes the program to take a
20 snapshot of the current Cartesian space arrangement of windows and objects, which makes it possible for the user to pull up the current Cartesian space at a later time. Clicking the "next 10 pages" button (now shown) draws the next ten pages in the 3D stack, adding it to the original ten pages to create a total of twenty pages in the 3D stack. Clicking the previous 10 pages button 408 binds the end user to a close-up viewpoint of the previous 10 pages in a 3D stack (for
25 example, moving from the twentieth page back to the tenth page).

 Also illustrated in the embodiment of Figure 10 is a supplemental navigation button 410 for changing his/her perspective or viewpoint in the 3D virtual space 300. For example (a) the up arrow 412 moves the end user up along the +y axis in the 3D Cartesian space, (b) the down arrow 414 moves the end user down along the -y axis in the 3D Cartesian space, (c) the left

arrow 418 moves the end user left along the $-x$ axis in the 3D Cartesian space and the (d) right arrow 416 moves the end user right along the $+x$ axis in the 3D Cartesian space.

When an end user clicks the close button 420 on any texture map of a web browser control represented in the 3D stack, the 3D GUI removes the page from the 3D stack, animates
5 the next page after removed page forward to replace position of removed page in stack, animates page after previously animated page to original position of previously animated page before it was moved, animates forward next page in 3D visual stack to replace position of previously animated page, animates next page in stack to position of previously animated page, and repeats this process until the end of the 3D stack or last element in the array is reached.

10 In addition, the 3D GUI can be easily customized in another embodiment of the invention to accommodate a formula to dynamically compute the position or x,y,z coordinates of each webpage (or other item) drawn within a 3D stack to take on the overall look of what we call a custom gestalt whereby the configuration or pattern (x,y,z coordinates in the virtual space) of elements are so unified as a whole that it cannot be described merely as a sum of its parts. For
15 example, in one embodiment (not illustrated), a different gestalt or pattern for drawing webpages takes on the shape of a three-dimensional cube where each webpage is plotted at the point of intersection of three sides of the cube (different than the column gestalt in Figure 9).

In another embodiment, the 3D GUI retrieves images from a helper application which are then presented in a matrix wherein four pictures are drawn into two rows and two columns for
20 each 3D stack along the x and y plane within the virtual space. In yet another embodiment, the visual gestalt is of a matrix where sixteen pictures are drawn into four rows and four columns for each 3D stack along the x and y plane within the virtual space's gestalt.

In accordance with another aspect of the embodiments described herein, the 3D GUI "gestalt" can be adapted to provide a "Links In/Links Out" feature in combination with a gestalt
25 for any object or web page in the search results within the virtual space. First, should the user request, the program will automatically allow the end user to plot all of the web pages or objects that "link out" of any given web page or object within the 3D virtual space. Second, should the user request, the program will automatically allow the end user to plot all of the web pages or objects that "link in" to any given web page or object within the 3D virtual space.

The 3D GUI system's display engine can also be adapted to output a custom gestalt suitable for e-mail. The labels drawn in the 3D Cartesian space, their positions and angles for Links In/Links Out can be customized to display any titles which correspond to the kind of data presented. Each coordinate or position in the 3D Cartesian space for plotting the information displayed in 3D stacks and Links In/Links Out, are variables that can be amended within a custom template that is compatible with the program to alter the look of the gestalt in the 3D Cartesian space. This can be accomplished by using xml encoded data in the template that utilizes the extensible nature of the program. Those skilled in the art will be able to create these extensible data tables that work with the system. The program can handle multiple templates at once through template files and switch between different themes on-the-fly at the request of the end user through their input from the interface panel.

In one approach, each coordinate or position in the 3D Cartesian space displayed in the 3D stacks are variables that are amended by a custom template that is compatible with the program to alter the look of the gestalt in the 3D Cartesian space. This is accomplished by using xml encoded data in the template file that utilizes the extensible nature of the program. For example, a cluster of eight windows can be arranged at the corners of a cube configuration, wherein the each window can be rotated through the cube arrangement to sort through the pages in the cluster. The Links In and Links Out feature can be represented by line segments that connect each cluster. It will be noted that a cube cluster is only exemplary and that clusters having variable numbers of pages to display are contemplated as well. For example, in another embodiment, five windows are represented in a cluster having a pyramid configuration, wherein the pyramid comprises a rectangular base with four points and a single point located above the rectangular base.

In one embodiment of the invention, the 3D GUI can be a historical visual chronology of the user's computing session, whereby the application can archive the date and time of each new visual event by recording the viewpoint at that date and time of the computing session and revisit these visual events by restoring the viewpoint at that date and time. Here, we are calling a "visual event" as any change in appearance to the 3D virtual space usually caused by adding information and output captured from other sources and drawn within the 3D virtual space

(Figure 2 — boxes 22, 24, 26). In one embodiment of the present invention a virtual space is created as shown in Figure 21. Furthermore, the helper application called “Yahoo! Search” is utilized to conduct a search and plot the webpages for the search result in the 3D virtual space in its own 3D stack. The searches tab 454 in the compass 440 is selected showing the date and time
5 that each search result or webpage was plotted within the virtual space in the window pane below it in chronological order (see entries 660-672 in menu 441 of compass 440).

We are calling the “compass” an area in the program that can store information in the 3D GUI that is related to the program such as viewpoints. The compass can have categories where information is stored. Changing the categories gives the end user access to different information,
10 allowing one to filter or discover information based on the category selected where the information resides.

Here we see that the events (674, 676) shown or drawn in the virtual space 300 correspond to the archived date and time indexed for each event in the searches tab of the compass. Since 3D virtual spaces have a (i) horizontal position known as (x), (ii) vertical
15 position known as (y) and (iii) a position of depth (z) which is also known as time, one can see how it is possible to create a visual history of the end user’s computing session by plotting new output in a new position further along the (z) axis and date and, time stamp it (e.g., entry 670 which reads August 8, 2006 – 6:00 p.m.) In fact, the system can be programmed to archive any information combined with the proper operating system controls or other output at the next
20 visual event to be drawn in the 3D virtual space by the help of custom helper applications. For example, a graphical event could be the creation of a webpage in the GUI’s 3D virtual space by typing a URL such as <http://www.yahoo.com> followed by a carriage return on the command line interface labeled “address:” 464.

The 3D GUI automates navigation in computing by remembering where the user left off
25 last - visually - such that the next time the user requires the same series of inputs to achieve that same given output, the 3D GUI will navigate the user through a recorded 3D space that is the visual history of where the user last left off and the items that were output into the virtual space will be staged just as they were.

With reference to Figure 13A, in one embodiment, the application the 3D GUI runs as an Active X control within the Internet Explorer web browser. The Saved Spaces tab can be selected in the explorer pane to reveal all the saved spaces in the menu below it. Clicking a saved space will load the 3D virtual space into the main window. Window 490 shows the output of another helper application called Desktop 451 whose name is shown as a tab in the compass 440. In the illustrated embodiment, a saved Microsoft Word document 500 is running in a window 490 within a 3D virtual space 300 alongside items 492, 494, 496, 498. All of the outputs of these items were captured through the input of the end user through helper applications using the method called "Interactivity and Persistency" (see exemplary approach shown in Figure 3). This output saved here as a virtual space 300 can be combined together from disparate sources and saved together as one in a virtual space 300.

Furthermore, the Microsoft Word document 500 whose output is running in the 3D virtual space window 490 was input (into the 3D virtual space 300) by the end user by drag-and-drop (Figures 1A-1C – box 78) from the menu of the helper application labeled Desktop 451, in the explorer pane of the 3D GUI application shown as a graphical event. Using the helper application called Desktop 451, any file, document, application or desktop can be added to a 3D GUI virtual space by drag-and-drop (Figures 1A-1C – box 78) in the same way the Microsoft Word document 500 was added to the virtual space 300. Furthermore, once the file, document, application or desktop is added to the virtual space 300, it is fully interactive and functional and appears no different from, or close to, the original way the program functions when it was not in the 3-D Cartesian space 300.

Figure 13B shows a saved virtual space whose file name is called ncn (510) whose itemized output from helper application called "Yahoo! Search" (520) is indexed in the explorer pane 441 of the 3D GUI window. Clicking one of these indexed names (viewpoints) will bind the end user to a viewpoint created by the helper application that brings a favorable viewpoint/perspective of the output for this particular webpage in the 3D virtual space to the end user's view. As such, each name indexed in the explorer pane of the window (compass or database module 440) under the searches tab 454 serves both as an index of the search results

gathered by the helper application as well as a hyperlink or trigger to a favorable viewpoint within the 3D virtual space of each webpage within the search results.

5 In certain cases it may be difficult to interact with a file, document, application, desktop or other output within a 3D virtual space. This can be the case if the end user is occupying an unfavorable viewpoint in the virtual space where objects are drawn in skew within the virtual space. In such a case, the 3D GUI system uses a technique called "Bind to the HUD", which involves bringing a file, document, webpage, application, desktop or other output into view by drawing it on the HUD. Those skilled in the art will recognize that the term "HUD" or "heads-up display" refers generally to a way of projecting information directly into a human's visual field. This technique was pioneered for military aviation, but has been used experimentally in other applications as well. This can be accomplished by changing the viewpoint of the end user within the virtual space so it is directly in an end user's visual field.

15 When the viewpoint of the end user within a virtual space has caused the webpage to be drawn in skew, there will often be a distortion in shape of the normal distribution toward one side or the other. In such a case, the 3D GUI system utilizes the Bind to the HUD feature whereby clicking an icon or button (analogous to the minimize in windows operating system environment) triggers a change to the viewpoint of the end user within the virtual space so that the webpage is directly in an end user's visual field, thereby making it easier to interact with. In one embodiment, this is accomplished by revealing the 2D version of the webpage that was initially hidden or drawn off screen and positioning it in a layer that is in front of the 3D virtual space such that the end user can interact with this layer in 2D. Furthermore, the end user has the freedom to unbind to the hud or hide the 2D webpage again that was initially hidden or drawn off screen by clicking the appropriate button (again, analogous to the minimize button in the windows operating system environment). As such, an end user can toggle or switch between 2D and 3D for any selectively captured computing output and information (webpages, applications, documents, desktops or anything that can be visualized on a computer) that was drawn within a 3D virtual space at will by using this technique.

25 Since the 3D GUI takes advantage of seemingly unlimited space, the output of applications and documents need not be closed, hidden or filed. They are staged and can

permanently exist visually open (by recording their output in a 3D virtual space) where they are and how the user last left them. The 3D GUI does this by allowing the user to record everything they ever did, visually, and letting them revisit it through unlimited space. Should the user require a new computing experience, they simply create more virtual space and plot new applications and documents within this newly created virtual space through helper applications or programmatic access.

Should the user require an old computing experience, the 3D GUI changes the graphical output of the screen to visually represent what they saw during the old computing experience (e.g., data at a particular viewpoint recorded at a particular date and time or archived under a file name). This old computing experience can be saved in a file as what we call a "saved space". A saved space is not unlike any other file as it stores the information that can be seen in a virtual space by the 3D GUI program at any time the end user chooses by utilizing the save space command. In addition, the 3D GUI can systematically archive any new visual change or addition to the virtual space by date and time and recall what was seen in a past virtual space by date and time. This way, the 3D GUI lets one travel back (visually) in computing time.

In accordance with one embodiment of the present invention, the 3D GUI provides full functionality and interactivity of the 2D display of a user's computer (including the selective and isolated capturing of graphical windows, desktops, HTML pages, and general program outputs) redrawn into a novel simulated real-time 3D immersive Cartesian space, whereby the 2D graphics are drawn or mapped onto 3D objects.

The 3D GUI invention is a novel system that offers a 3D stage to bridge information into and handle this information from an operating system's output. The 3D GUI system disclosed here can be adapted to capture any output from any operating system, in the language of the operating system, regardless of any programmatic or structural changes to the operating system, the way it outputs or the sequence of programmatic events used to program the operating system or interact with it.

In one embodiment, the 3D GUI system implements interactive composite texture mapping of operating system controls or other operating system outputs into infinitely immersive interactive 3D Cartesian space to facilitate search, sort and a browsing GUI system of

information (e.g., but not limited to webpages, applications, documents, windows, networks, webservices, etc.).

Regardless of the (1) kind of information brought into (through the output of the operating system) the program whether it be webpages, pictures, windows, applications, desktop
5 screens, pdf files, etc. or (2) the method by which the information is captured by the program
whether it be through APIs, Meta Search, or webservices, or (3) the programmatic access by
which it is delivered (controls, windows, desktops, images, VNC) it is critical that the program
bring the information into the simulated 3-D interactive Cartesian space in such a manner that
the information being brought in is fully interactive and functional and appears no different from,
10 or close to, the original way the program functions when it was not in the 3-D Cartesian space.

In accordance with one aspect of the embodiments described herein, there is provided a
special control from the operating system such that the information being dealt with (e.g.,
webpages) functions properly in the 3-D Space as it would in 3D. Accordingly, in the world of
computing, a "CONTROL" is defined as an object that enables user interaction or input, often to
15 initiate action, display information or set values. For example, in order for a webpage on the
World Wide Web to function properly in the operating system in a typical window on the 2-D
desktop of an end user's computer, the language of that webpage (HTML) must be read by an
operating system program or CONTROL in order for the webpage in question to be displayed
and function properly. One such particular control used by the Windows Operating Systems is
20 called a Web Browser control that deals with webpages as well as typical desktop windows.
Currently, most Windows controls are visualized using a 2-D paradigm. The name of one such
control is called MSHTML/webbrowser control for rendering HTML webpages and other
content on the Windows desktop within a window.

Webpages, unlike pictures that the end user simply view, require interactivity to function
25 properly in a virtual space. Because the viewpoint of an end user within a 3D interactive virtual
space can change, so to do the shapes and sizes of the objects being drawn change based on the
end user's navigation within the virtual space. If the objects being drawn within a 3D virtual
space having operating system output such as controls mapped onto them, a special system must
be created to insure that the end user can interact with the mapped object in a 3D virtual space

with the same responsiveness of input and output that one would find in a 2D desktop. As such, described herein is a interactive 3D composite texture mapping to serve as a visual bridge of information from an operating system's 2-D output (e.g., the programmatic access for which the 2-D is being displayed utilizes a control, and all the information a control is capable of displaying) to the 3-D interactive Cartesian space, wherein the represented objects remains fully functional in the immersive space from any viewpoint that the end user selects (see Figure 3).

As such, the program delivers full functionality and interactivity of the two-dimensional display of an end user's computer (including the selective and isolated capturing of graphical windows, desktops, HTML pages, and general program outputs or any information a control can display or non-control item) redrawn into a novel simulated real-time 3-D immersive Cartesian space whereby the two-dimensional graphics are drawn or mapped onto three-dimensional objects.

While immersed in this 3D space, end users can see their two-dimensional computer display components that were captured and redrawn and fully interact with them, creating an entirely new way of computing. While interacting with their mapped or redrawn two-dimensional displays, end users can change their perspective or viewpoint (as defined as a location or visual perspective in the local coordinate system or three-dimensional space) by moving closer to it, away from it, changing their angle or both.

In one exemplary embodiment, the visual output of an operating system's control that one would normally find output on the 2D desktop (e.g., webbrowser control/msHTML) is texture mapped onto 3D geometry (e.g., a cube, pyramid, etc.) in the GUI system's 3D immersive virtual space. This is one operating system control chosen from an infinite library of possible operating system controls, APIs or any outputs whose output can be captured by the 3D GUI and drawn onto any object in the 3D space. In addition, the origin and method for the visual output of an operating system's control can be texture-mapped onto the 3D Geometry in the GUI system's 3D immersive virtual space regardless of what it is or how it was captured.

With reference to Figure 3, there is provided an Interactivity and Persistency Diagram illustrating the processing of information required to achieve both interactive composite texture mapping as well as interactivity and persistency in a virtual space. In the diagram, this process is

initiated with the launching of the 3D GUI application which can be installed on either a client computer or a server computer.

The 3D GUI running on a server can deliver information and software to other computers linked by a network. Here, the client is the requesting application program or user in a client/server relationship. For example, the 3D GUI client application is effectively making client requests for information from the 3D GUI server over the Web. The 3D GUI program itself is a client in its relationship with the computer that is getting and returning the requested information. The computer handling the request and sending back the information is the 3D GUI server.

In this embodiment, the 3D GUI application program will run locally on the computer rather than as a web-application or network-application over a network connection. However, both configurations are possible. Should the invention execute on a server or other such computer, this would provide a user of the client computer to have access to other computers' operating system's output. Initially, the application is launched as described by Launch Application in the diagram. A virtual space is created, "Create Interactive 3D Cartesian Space", on the computer desktop for which it runs through the program. Virtual space is simply a program (running within the run-time environment/3d rendering browser) simulating a 3D space within a flat 2D display by redrawing objects in the virtual space. Depending on the application or computing purpose at hand, the program will capture user input request based on the intended program customization.

Through programmatic access, the application will transfer and initiate user requests from the 3D virtual space to 2D desktop or directly to the operating system of the computer through an API call. If this transfer of user requests from 3D to 2D is done directly to the 2D desktop without an API call, the user requests are transferred by simulating/emulating or reproducing the request or device input from event handler off-screen onto the hidden 2D mirror component and capturing the response or change in output from the 2D mirror again in a synchronous fashion and mapping it back to arbitrary 3D geometry. We say off-screen because the 2D desktop or operating system control is hidden from the end user to focus attention on the 3D virtual space. In this way, end users can compute with the same outputs from their 2D desktop through a 3D

virtual space that acts as 3D window into 2D output, setting the stage for computing with seamlessly unlimited virtual space.

Based on program customization, the application will “Determine proper OS control to retrieve the kind of information requested” by the end-user to the purpose at hand. For example, this could include (but not limited to): (1) opening a webpage, (2) opening a file or document, (3) launching an application, (4) create a window or (5) executing any other program locally or over a network connection.

As such, once the proper operating system control is specified and located, an application program interface call is executed for this system control. In order to enable the usability and functionality of this control or other operating system application program interface within a virtual space, the 3D GUI will blit or map visual output of OS control, bit map or API onto arbitrary 3D geometry. The phrase arbitrary 3D geometry is used to clarify that this geometry can be unique to the theme of the virtual space that the 3D GUI is customized to through a template that utilizes a specific gestalt.

It will be noted that the 3D GUI is not limited to one method for capturing this map or “visual output of OS control” or simulating or passing the user’s request to the mirror as each operating system has a unique method for handling controls and their output.

Within the 3D virtual space, a device input event handler is utilized to pass mouse clicks, cursor positions, keyboard input and movements from the operating system control mapped onto the 3D geometry to the mirror control running on 2D environment.

Currently, this method or cyclical process of capturing operating system output and drawing it into a 3D virtual space is a workaround or manual procedure implemented in order to overcome a shortcoming of the operating system to the problem at hand. In another embodiment, the operating system can incorporate this feature or similar to it with one simple API call in the future at which time the 3D GUI system could utilize this API.

This process of (1) mapping visual out of operating system control on 3D geometry in a virtual space, (2) scanning the device input event handler and (3) passing this input to the mirror control running in 2D environment or directly to the operating system is repeated in a cyclical fashion to create a real time experience of interacting with said operating system controls or

operating system output in a virtual space, regardless of the viewpoint or perspective of the end-user in the virtual space. The 3D GUI application runs in real time in which information is received and immediately responded to without any time delay among the virtual space and the 2D map or operating system API output. This synchronous communication is advantageous as too much delay would make the system lag.

As one can discern from Figure 3, in the situation that there is no operating system control or programmatic access to capture the map or visual output of an operating system control, a contingency is incorporated to periodically capture the on-screen output of an operating system control or output (e.g., window) as a bit map from the frame buffer, video driver, operating system graphics API or video memory by blit (to copy an image, or part of an image, from one place to another). With further reference to Figure 3, it will be noted that the method and system for providing a 3D GUI as described herein allows the system to capture the visual output from any computer source regardless of its origin or how it was output. For example, while boxes 128, 140, 142 in Figure 3 refer to OS Control and/or say "Execute Proper OS Control Specific to the Kind of information Requested ...," it will be noted that the invention is not limited to applications involving OS Control, but can relate more generally to applications involving Programmatic Access or the like. For example, in certain embodiments, box 140 of the flowchart of Figure 3 can read "Execute Proper Programmatic Access to the Kind of Information Requested which will act as a Mirror to its 3D Representation."

By capturing the output of the user's traditional two-dimensional desktop, the GUI stages this output in a seamlessly 3D space by plotting the windows or other graphical representations of programs in 3D. In one embodiment of the present invention, 3D GUI anticipates what the user may seek next (for example, the next webpage in a search result), eliminates dormant computing time, and puts the user in a reduced-click computing environment by automatically plotting the new computing experience (in a new space, rather than overlapping it onto something else) while visually recording the old. Because the 3D GUI creates the illusion of infinite space in 3D, it can create a visual history of the user's computing session, whereby the user can visit past visual computing events (or a snapshot in time) by simply navigating to previously recorded states. This can be accomplished because new information expressed

graphically in a virtual space does not replace old information by replacing it or overlapping it. Instead, it is drawn in new virtual space. Accordingly, the 3D GUI can serve a historical visual chronology of the user's computing session, whereby the user can name the computer experience they are currently having through their position(s) (or viewpoint) in a 3D space and revisit it by recalling the name or title at a later time.

While immersed in this 3D space, the user can see their 2D computer display that was captured and redrawn and fully interact with it, creating an entirely new way of computing. While interacting with their mapped or redrawn 2D display, the user can change their perspective or viewpoint (as defined as a location or visual perspective in the local coordinate system or 3D space) by moving closer to it, away from it, changing their angle or both.

The 3D objects that are being drawn onto (or next to) can collectively represent a theme or backdrop for the content that is redrawn, such as a house, library or even neighborhood. For example, electronic music files may be mapped onto 3D pictures of CDs or Records, electronic videos files may be mapped onto televisions or movie screens, etc. (see Figure 22) The redrawing of 2D computer screens onto interactive 3D objects increases the visual computing space and allows the user to organize the computer output onto objects or near objects whose 3D visual construct may represent the real world object the computer output is associated with.

In accordance with one aspect of the present invention, the 3D GUI is adapted to create a visual computing history, whereby normal changes to a 2D computer display output are drawn or mapped onto new 3D objects, rather than replace the current output or 2D display once a change is made. For example, in one embodiment, when the user clicks on a hyperlink on webpage A, this results in the creation of a new webpage B instead of replacing A. For example, as the user browses the internet by interacting with a two-dimensional output mapped onto a three-dimensional object, pages that the user would normally hyperlink to by clicking a link would replace the 2D computer display. The 3D GUI, however, is adapted to create an entirely new 3D object whose surface is mapped with the new display content that would normally replace the original 2D interactive page.

By storing and archiving the date and time of each new graphical event, the user creates a visual chronology of their computing session, which can be recalled by clicking icons on a

timeline where each icon on the timeline represents the action of the end user at a specific date and time. The programmatic access that is responsible for a past graphical event would also be archived. For example, in the case of viewing a second HTML page that one hyperlinked to, the previous URL would be saved. This way, a user could always look back at what the computer previously displayed before it output the current view and interact and function with a previously saved computing state as represented graphically. This process of capturing visually the computing history in 3D can continue on indefinitely, whereby the 3D visual space can be saved, archived and revisited and the timeline would grow dynamically with additions of icons to represent this.

In accordance with one embodiment of the present invention, a compass (or database module) application is provided. The user is allowed to click at least one button on the compass (while immersed in a three-dimensional interactive space) and assign one or multiple names to a viewpoint (as defined as a location or visual perspective in the local coordinate system or three-dimensional space). The user may then view the three-dimensional image associated with the viewpoint and save this viewpoint (or visual perspective) along with its corresponding name in a file whose content or data can be accessed by the compass. In one embodiment of the present invention, the compass acts as an electronic combination lock, whereby the combination or sequence of one or multiple names assigned by the user and added to the dials of the compass identify the stored location.

For example, consider the situation whereby a user is immersed in a 3D interactive space showing 3D objects of compact discs from The Beatles. To view the current viewpoint, the user could assign multiple names such as MUSIC, ROCK, FOREIGN, BRITISH INVASION whereby each name would occupy one space on one of many dials of the graphical user interface. By turning the dials to the names MUSIC, ROCK, FOREIGN, BRITISH INVASION the program would initiate a change of viewpoint to the 3D interactive space showing the 3D objects of compact disks from The Beatles. The use of the interface feature for naming, storing and re-visiting viewpoints in a 3D space is universal and can be applied to a local file of a 3D space on the user's computer, a networked file or a file on the world wide web.

In accordance with one aspect of the present invention, the user is able to access stored viewpoints on a graphical interface called a compass, which may serve as an electronic combination lock. In this embodiment, the compass will open (or visually visit) a stored viewpoint when its dials are turned through a predetermined sequence of positions identified on the dials' face by the appropriate names assigned to each dial. Therefore, the compass can be used to connect a series of viewpoints together and visually visit a series of connected stored viewpoints.

In accordance with one aspect of the present invention, the user is immersed in a 3D space and provided with a button called new space or the like. When this button is clicked, another file for a completely new 3D interactive space is created, whereby the new 3D interactive space is accessible from the current space by clicking a 3D object or portal button. The portal button, which electronically links the new space to the current one, may be represented by a picture of a viewpoint or visual perspective of the new space. By clicking the new space button, the 3D GUI will automatically create the portal button within the current space that links to the new space. Furthermore, the 3D GUI may also allow the user to concurrently assign one or multiple names to the new space, and add these name(s) to the database module (also known as the compass).

Should a user create a new space and then save this space or e-mail it (Figures 1A-1C – boxes 96, 98) the 3D GUI may be adapted to automatically create a table of contents page (Figures 1A-1C – box 100) by writing the markup for an HTML page that describes the new space, the names assigned to the new space via the compass, and pictures of the new space through snapshots of different viewpoints or visual perspectives of the 3D file. All this information may be assembled into an HTML file that will be automatically published or sent by file transfer protocol (FTP) to one or many world wide web servers for promotion as to be found and crawled by the many search engines that traverse the world wide web.

One purpose of creating these HTML table of content pages for newly created 3D spaces on-the-fly and publishing them to the world wide web is so that they can be used as portal pages, whereby a user could (i) search the world wide web using keywords, (ii) find a table of contents page whose subject corresponds to the keywords, and (iii) hyperlink the end user from a 2D table

of contents page to a 3D interactive space whose subject matter corresponds to the table of contents page. For example, the HTML table of contents page may contain (i) the name of the new space as the title of the HTML page, (ii) meta tags whose names would be taken from the names assigned to viewpoints of the compass interface, (iii) a raster image or picture of the original viewpoint or visual perspective of the new space, (iv) a list of all hyperlinks found within the new space, (v) a description of the scene, (vi) the author of the scene, (vii) remote desktop connection settings and/or (viii) URLs to the desktops for all remote desktop connection links shown within the new space.

Because the search engines that index information on the world wide web mainly do so for HTML (webpages), pictures and (in some occasions) files, the HTML table of content pages disclosed here serve as a doorway for saved 3D virtual spaces to be included in a search engine's index. Information about the 3D GUI Active X control that is responsible for running the control is coded into the HTML table of contents page through use of the HTML <object> tag along with other information disclosed here that make up a table of contents page. In this way, the 3D GUI system allows end user's to author content through their 3D virtual spaces, publish them on a server through a table of contents page and insure that these pages can be crawled and seen by search engines through the current paradigm of the world wide web where search engines primarily use crawlers or spiders to examine hyperlinks and words on webpages.

In accordance with one aspect of the present invention, the display of 3D on a computer screen may involve a run-time execution model that plays a previously programmed 3D space like a tape-recording in a window or web browser as a one-way broadcast medium. The programming of this 3D space is accomplished by hand coding a program or using an editor which prepares a file for the player. In one embodiment of the present invention, the helper applications can be accessed from the player (while an end user is using and immersed within a 3D space) through a graphical user interface of interactive icons that facilitate the display output of a file or functionality of a program within windows within a 3D space.

In one embodiment, content output into the 3D GUI application's virtual space is generated by running a helper application, such as eBay Search or Yahoo Images Search. The resulting first product image output and their product information, generated by helper

application whose functional diagram is shown in Figures 4A and 4B. The output preferably comprises a linear map (e.g., drawn on the bottom margin of the virtual space), whereby the 3D GUI is adapted to express the map of stored searches as 3D icons with their names (should the end user mouse-over them) for specific search items expressed as a timeline. Here, the timeline is a map which represents the linear progress of animation from the first viewpoint of the first item in each 3D stack to the last viewpoint of the first item in the last 3D stack should the end user click each 3D icon in such a sequence, originally indexed in the compass. In essence each 3D icon is a hyperlink; a graphic, when clicked, that jumps to a new location or viewpoint in the current virtual space corresponding to the 3D icon. In this embodiment of the invention, each new search results in a new 3D stack created for that search result plotted in the 3D virtual space with its corresponding 3D icon drawn.

For example, in the embodiment of Figure 9, one can see three 3D icons (342, 344, 346, 348) in the timeline 340 representing four unique searches (i.e., rolex Daytona, ibm laptop, plasma tv, and treo 650) done with the eBay Search helper application. Each unique search resulted in the creation of its own 3D stacks 302, 304, 306, 308 (each stack showing ten items at a time in this embodiment) as well as their own unique 3D icons plotted in a timeline map 340 at the bottom margin of the 3D virtual space 300. In this embodiment of the invention, should the end user click on any hyperlink or 3D icon, the 3D GUI would visually take the end user to the viewpoint of the first eBay search result item within its 3D stack.

In this way, end users can (1) successively enter in new search terms into the eBay helper application, (2) press the carriage return to initiate their searches, (3) visualize the search results plotted into their own unique visual column, (4) visualize the map of 3D icons expressed as a timeline on the bottom margin of the virtual space, (5) quickly navigate among (through the viewpoint of the first item in each unique 3D stack) searches as they are expressed in 3D stacks by simply clicking the hyperlink of 3D icons on the timeline and shuffle or sort through each item in each 3D stack by clicking the commands on the navigator 320, such as next page 322, last page 324, next 10 pages 326, and last 10 pages 328. Also, by clicking on the icons on the navigator 320, the end user can change their perspective or viewpoint in the 3D virtual space 300. For example, (1) the + sign 337 moves the end user forward along the +z axis in the 3D

Cartesian space, (2) the - sign 338 moves the end user backward along the $-z$ axis in the 3D Cartesian space, (3) the up arrow 330 moves the end user up along the $+y$ axis in the 3D Cartesian space, (4) the down arrow 334 moves the end user down along the $-y$ axis in the 3D Cartesian space, (5) the left arrow 336 moves the end user left along the $-x$ axis in the 3D Cartesian space and the (6) right arrow 332 moves the end user right along the $+x$ axis in the 3D Cartesian space.

In the embodiment of Figure 11, there is provided an address: command line 464 interface or helper application whereby an end user can input a URL or address for a window, document or application in the local file system of a local operating system, etc. When an end user types <http://www.yahoo.com> on the address field of the command line interface, the application then draws the HTML page through the proper web browser control into the 3D virtual space as depicted. This process can be repeated indefinitely, entering in additional URLs on the command line labeled address: to have them filed in a 3D stack. Four webpages (510, 512, 514, 516) are created in a 3D GUI virtual space having sequentially typed in <http://www.yahoo.com> followed by a carriage return, <http://www.google.com> followed by a carriage return, <http://www.ebay.com> followed by a carriage return and then <http://www.msn.com> followed by a carriage return. The command line interface, helper application 464 is one way for the user to create and author HTML pages, desktop windows, documents, applications, vnc desktop, or anything else able to be visualized in a virtual space on the fly at their behest.

In an alternate embodiment of the present invention, each helper application is adapted to display information via a customized 3D interface whose graphical design and construct resembles the real world object it seeks to represent. For example, one may run a helper application for a music file. After clicking on the icon for the helper application, the 3D GUI may prompt the user or automatically locate the music file(s) on either their local computer, networked computer or world wide webservice. The helper application may then draw the interface for the music file(s) in the 3D space. The user can then interact with the graphical representation of the music file (e.g., a graphical representation of a CD) to run and play the music file.

Regardless of where the file or application displayed in the 3D GUI is located (e.g., within the same folder, subfolder, a different computer, within the network, a different network, across the internet, etc.), the user has full access to the file through it's native program, or to the website through the default browser. In this way, the 3D GUI allows the output of disparate computer programs to visually converge into one expandable, changeable 3D space. The 3D GUI may also prompt the user to search or scan folders and subfolders in the local computer, network computers, web servers or the internet for any files of a given kind or criteria and display their output as windows or customized 3D real world object icons en masse in the 3D space via the helper application. This way, the user can use this feature selectively to choose only one file or automatically to choose all the files available to them.

In accordance with another aspect of the embodiments described herein, the end user is provided with the ability to selectively capture computing output and information (webpages, applications, documents, desktops or anything that can be visualized on a computer) and allowing it to visually converge within a 3D virtual space. In one embodiment of the invention, the 3D GUI offers the ability to drag-and-drop content in the form of files, folders, applications, windows, documents or anything else expressed on the end user's desktop (or networked desktop) to a 3D virtual space by locating it on the desktop or within a window on the desktop and dragging the icon(s) of the item (or the open item through its window) to the 3D GUI window's virtual space to add it to. Drag and drop describes a particular action you can make with the mouse. Click an object, such as a folder, then hold down the mouse button as you drag the object to a new location. One can drop the object by releasing the mouse button. Drag and drop can be used to easily move or embed an object or file into another.

Once the icons are dragged into the virtual space, the document, application, file or other can (i) open within a window in the virtual space or (ii) can be represented by its icon within the virtual space. In one embodiment of the invention, if the drag-and-dropped item is represented by an icon within the virtual space, it can then be double-clicked to open it within the virtual space or outside of the virtual space on the 2D desktop. For example, the icon of the Internet Explorer application within a virtual space can be dragged-and-dropped into the 3D GUI and shown as an icon.

If the end user double clicks this icon, the internet explorer window can open within the 3D virtual space. In one approach, if the end user double clicks this icon and holds the shift key at the same time, the Internet Explorer window will open in front of the 3D virtual space in a 2D window as part of the desktop. Each time the end user completes one drag-and-drop operation, all of the items in the single drag-and-drop are filed in their own 3D stack and an icon is plotted on the timeline to represent this.

In another embodiment of the invention, if an end user drags-and-drops a folder containing multiple items from the desktop, all of those items that are in the folder are drawn individually (outside of the folder) in their own 3D stack within the 3D virtual space. In addition, an icon representing this visual event through a drag-and-drop action by the end user to alter the 3D virtual space is preferably added to the timeline in accordance with its function. In this case, an icon of a folder is drawn on the timeline representing this action (drag-and-drop of a folder into the virtual space) as it is indexed in the timeline

In accordance with one aspect of the present invention, the end user can re-order, move around or further organize items plotted within the 3D virtual space automatically through the script or program of a helper application (Figures 1A-1C - box 32) written for a specific purpose such as sorting or manually by clicking on one item or multiple items as a group (ctrl-click) and moving them to their new location through drag-and-drop. Drag and drop describes a particular action you can make with the mouse. Click an object, such as a picture or webpage, then hold down the mouse button as you drag the object to a new location. You drop the object by releasing the mouse button.

For example in one embodiment, illustrated in Figure 17A, one can see five items (590, 592, 594, 596, and 598) in the virtual space 300, wherein the five items are represented in the timeline 340 by icons 600, 602, 604, 606, and 608, respectively. The end user has the ability to move any item in the 3D virtual space to any other location within the virtual space by translating it along the x, y axis simply by clicking it, holding down the mouse button, dragging the object to the new location and releasing the mouse button. For example, if the end user clicks the webpage 590, holds down the mouse button and drags the webpage to the left (-x) and up (+y) within the 3D virtual space and releases the mouse button, the webpage will occupy a

new location (see Figure 17B). The end user can also move items closer to their viewpoint (appearing larger) or further away from them (appearing smaller) within the virtual space by translating them along the z axis. In order to accomplish the translation of an item within the virtual space in the -z (further away) or +z (closer) direction, the end user holds down the shift
5 key at the same time they initiate a drag-and-drop of said item. For example, with reference to Figures 17A-17C, if the end user clicks the image 596, holds down the mouse button and shift key down at the same time and drags the mouse backwards closer to their person, the picture 596 will be translated forward in the +z direction, appearing larger, and will occupy a new location in the virtual space. Similarly, if the end user clicks a webpage, holds down the mouse button and
10 shift key down at the same time and drags the mouse away from their person in a forward direction, the webpage will be translated backward in the -z direction, appearing smaller, and will occupy a new location in the virtual space (not illustrated).

In accordance with one aspect of the present invention, the user is able to access helper applications while immersed in a 3D interactive scene, by clicking on icons located on a task bar
15 at the base of the screen. By clicking on these animated 3D icons, the icons may duplicate themselves or animate themselves into the 3D scene and provide the beginning of functionality as 3D graphical objects for the tasks at hand for which the icon was initially clicked. For example, the icon on the task bar to initiate this helper application may be of an open doorway. Once the 3D open doorway icon on the task bar is clicked, a picture of a viewpoint or visual
20 perspective of the new space may be animated from the task bar into the scene. If this picture were to be clicked from within the 3D scene, it would act as a doorway that would hyperlink the user from the current scene to another scene.

In accordance with one aspect of the present invention, the display of 3D on a computer screen may involve a run-time execution model that plays a previously programmed 3D space
25 like a tape-recording in a window or web browser as a one-way broadcast medium. The programming of this 3D space is accomplished by hand coding a program or using an editor which prepares a file for the player. A helper application for geometry can be accessed from the player (while an end user is using and immersed within a 3D space) through a graphical user interface of interactive icons that facilitate the display or input of 2D and 3D objects into the 3D

scene based on a user interface of geometrical objects (cube, spheres, cones) or real world objects (room, desk, building, stairs, CD rack). This addition of geometry into the 3D scene on-the-fly helps give meaning to an otherwise endless connection of 3D spaces for which users can fill their output with. The 3D GUI may further include a special Search and Browse application to locate 3D geometry files. The user may use the Search and Browse application, for example, to search for geometry files in (or beyond) folders and subfolders located on the local computer, network computers, web servers or the world wide web.

In accordance with one aspect of the present invention, the display of 3D on a computer screen may involve a run-time execution model that plays a previously programmed 3D space like a tape-recording in a window or web browser as a one-way broadcast medium. The programming of this 3D space is accomplished by hand coding a program or using an editor which prepares a file for the player. A helper application for audio, sound and music can be accessed from the player (while an end user is using and immersed within a 3D space) through a graphical user interface of interactive icons that provide pre-recorded audio, sound and music and may also facilitate the recording of sound through a microphone connected to the computer and inserted into the 3D scene through an icon (e.g., of a speaker, etc.) on-the-fly as a way to label (or narrate) the scene and record thoughts next to objects in the scene to further give them meaning. The user may further use the Search and Browse application, for example, to search for audio, sound, or music files in (or beyond) folders and subfolders on the local computer, network computers, web servers or the world wide web.

In accordance with one aspect of the present invention, the display of 3D on a computer screen may involve a run-time execution model that plays a previously programmed 3D space like a tape-recording in a window or web browser as a one-way broadcast medium. The programming of this 3D space is accomplished by hand coding a program or using an editor which prepares a file for the player. The 3D GUI is unique in that it combines authoring capabilities to the end user within the interactive 3D virtual space (Figure 2 – boxes 22, 24, 26). For example, a helper application for pictures, animations, movies and video can be accessed from the player through a graphical user interface of interactive icons that help locate such pictures, animations, movies and video and insert such media into the 3D scene on-the-fly at the

end user's behest (see Figures 1A-1C – boxes 74, 86 while a user is using and immersed within a 3D space).

In one embodiment, shown in Figure 13A, the end user selects the Desktop helper application 451 in the database module 440. The selection of the desktop tab 451 reveals files on the end user's local hard drive or network in the window pane or menu 441 below. One can view files shown on the end user's local hard drive within this window pane 441. One can also drag-and-drop (Figures 1A-1C – box 78) one or more of these files into the GUI 3D virtual space 300 which results in the display of said picture, video and webpage incorporated into the 3D virtual space along with their 3D interactive icons represented in the timeline 340 of the 3D virtual space 300.

In another embodiment, shown in Figure 15, content output into the 3D GUI application's virtual space results from a search initiated with the helper application 522 (e.g., Yahoo! Image Search). This helper application shows the search term van gogh, having been input into this helper application's text input field 530. The resulting first four image outputs (552, 554, 556, 558), generated by helper application 522 (see functional diagrams in Figures 4A and 4B), created the 3D output of images and information from Yahoo! webservice, as shown in the 3D virtual space. The beginnings of a map or timeline 340 are provided (namely, an icon 550 on the bottom margin of the virtual space) whereby the 3D GUI is adapted to express the map as a timeline of stored searches through 3D icons with their names (should the end user mouse-over them). Here, the timeline 340 is a map which represents the linear progress of events within the virtual space. Clicking the 3D icons (e.g., icon 550) would animate from the first viewpoint of the first item in each 3D stack to the last viewpoint of the first item in the last 3D stack should the end user click each 3D icon in such a sequence, originally indexed in the database module.

In essence the 3D icon 550 is a like hyperlink –namely, a graphic that jumps (when clicked) to a new location or viewpoint in the current virtual space corresponding to the 3D icon. In the exemplary embodiment of Figure 15, each new Yahoo! Image Search results in a new 3D stack created for that search result plotted in the 3D virtual space with its corresponding 3D icon drawn on the timeline. The search for information could be images, video or any other content

available from a webservice. The user may further use the Search and Browse application, for example to search for pictures, animations, movies and video files in (or beyond) folders and subfolders on the local computer, network computers, web servers or the world wide web.

5 In accordance with another aspect of the present invention, the display of 3D on a computer screen may involve a run-time execution model that plays a previously programmed 3D space like a tape-recording in a window or web browser as a one-way broadcast medium. The programming of this 3D space is accomplished by hand coding a program or using an editor which prepares a file for the player. The 3D GUI is unique in that it combines authoring capabilities to the end user within the interactive 3D virtual space. In one embodiment, 10 illustrated in Figure 14, the user can access a paintbrush feature by selecting the 3D helper application tab 460 in the database module or compass 440, and then selecting the Add Paint Brush feature in the menu 441. A user interface of interactive icons 542, 544 appear in the virtual space 200, wherein the icons 542, 544 facilitate the display or output of 2D and 3D free formed lines and drawings 546 based on mouse events painted into the scene on-the-fly as a way 15 to annotate or decorate objects in the scene or create drawings next to objects to further give them meaning. More specifically, clicking on paintbrush icon 542 causes a painting tool to appear in the virtual space 300.

In this embodiment of the invention, the 3D GUI system redraws the 3D virtual space in a cyclical fashion to reflect the changes of content and perspective within the 3D space based on 20 the end user's input (see Figures 1 and 2 – box 22). The program scans the event handler for input from one of the many helper applications (Figures 1A-1C – box 30). In this present exemplary embodiment, the helper application is the Add Paint Brush. The end user chooses the paintbrush icon 542, which changes the end user's cursor to the brush icon. The 3D GUI captures the mouse movements of the end user and draws or paints this movement (if the mouse 25 button is depressed) which in this example is (i) an arrow, (ii) an underline and (iii) the word important painted in red (546) on to the x and y plane of the end user's viewpoint within the virtual space's 3D Cartesian space in the color red.

In accordance with another aspect of the present invention, there is provided a helper application for text that can be accessed from the player (while a user is using and immersed

within a 3D space) through a graphical user interface of interactive icons that facilitate the display or output of 2D and 3D text into the scene on-the-fly as a way to label objects in the scene and write down thoughts next to objects in the scene to further give them meaning.

In one embodiment, the helper application is an Add Text Command (Figures 1A-1C – box 72). For example, as shown in the embodiment of Figure 14, when the end user chooses the add text command by clicking on the icon 544, the end user's cursor changes to the text I-beam icon. The 3D GUI captures the keyboard input of the end user and draws or paints this text onto the x and y plane of the end user's viewpoint within the virtual space's 3D Cartesian space.

In accordance with another aspect of the present invention, the display of 3D on a computer screen may involve a run-time execution model that plays a previously programmed 3D space like a tape-recording in a window or web browser as a one-way broadcast medium. The programming of this 3D space is accomplished by hand coding a program or using an editor which prepares a file for the player. Once an end user is viewing a 3D space or scene on their computer through a player on either their web browser or stand alone application, a Search application can be used to input a search term or search terms.

The 3D GUI will then conduct a world wide web search using these search terms in at least one search engine (Google, MSN, Yahoo!) by opening one 2D HTML page drawn into a window or other object into the 3D scene for each of the search engines to display the output of the HTML page for each search. The 3D GUI may then parse the search results found in each HTML page and identify each hyperlink that the search engine returned to the end user as a search result. Once identified, the 3D GUI may then open one new window in the 3D space (behind the search results page) for at least one hyperlink found on the search results page that would display the webpage found at the URL for the Hyperlink (e.g., next set of search results, a particular search results, a particular advertisement, etc.).

In one embodiment of the present invention, the 3D GUI may do this for each hyperlink found on the search results page en masse for one or more search engines, and tile them in space. This plotting of search results into a 3D scene is beneficial to consumers as it expands the visual computing space one has available for both web searches and internet browsing.

In another embodiment of the present invention, the 3D GUI makes use of dormant

computing time while the end user is connected to a network. For example, most users will conduct a search, scan the page and click one link. Once they realize that the link they clicked was insufficient, they will click the back button on their browser, scan the page again, and click another link. The time the consumer is scanning the page, clicking one link, reading the page at
5 the new link and returning back to the original search results page is dormant computing time where the computer is connected to the world wide web and able to download all (or portions of) the hyperlink pages found on the original search results page, continuously, and draw these results into the 3D scene. The 3D GUI allows users to systematically visit a viewpoint that shows each search results page one at a time for easy viewing. The graphical user interface will
10 have options for saving the current search results into a file and post the name of the search, name of the hyperlink, URL, date/time and/or source onto the database module.

Using this same seemingly unlimited 3D visual space, the 3D GUI may allow the user to automatically parse any open or active webpage to (i) determine which HTML pages are links to it, (ii) determine which HTML pages it links to, and (iii) plot these pages as groups or clusters.
15 There may further be a visual grouping or cluster of pages drawn in a 3D space that link to any given active webpage. In this way, the user can determine in one glance at a given viewpoint of a clustering of webpages in the 3D space which pages to click that either link to their active page or from their active page. In addition, the user may be able to visually expand this network of webpages by choosing any active webpage in any cluster drawn in the 3D space and creating a
20 new cluster of webpages that this active page links to or by creating a new cluster of webpages that is linked to this active page. In this way, the 3D GUI creates a visual gestalt of the world wide web at the behest of the user.

In accordance with another aspect of the present invention, the display of 3D on a computer screen may involve a run-time execution model that plays a previously programmed
25 3D space like a tape-recording or animation in a window or web browser as a one-way broadcast medium. The programming of this 3D space is accomplished by hand coding a program or using an editor which prepares a file for the player. Once an end user is viewing a 3D space or scene on their computer through a interactive player on either their web browser or stand alone application, the 3D GUI may deliver textual, audio, video, multimedia, web advertisements

and/or 3D advertisements whose presentation is automatically incorporated into the programming that is responsible for the current view of 3D. This way, based on user inputs that help define the subject or context for which they are either searching or computing, the 3D GUI may deliver one or a combination of advertisements (e.g., advertisements previously mentioned
5 into the 3D space, etc.).

The 3D GUI described herein is an improvement over existing players that play 3D animation in that 3D GUI described herein anticipates an end user's input to navigate and add content to the 3D virtual spaces (through helper applications), on-the-fly, that it allows an end user to create; merging the editor concept and player concept of 3D into one hybrid editor and
10 player. In doing so, the GUI system redraws the 3D virtual space in a cyclical fashion to reflect the changes of content and perspective within the 3D space based on the end user's input (Figures 1 and 2 – box 22). The program scans the event handler for input from one of the many helper applications (Figures 1A-1C – box 30).

The helper applications can initiate the output of content into the 3D virtual space such as
15 but not limited to (i) loading a custom script and its icon to alter the application logic of the 3D virtual space through programmatic access to stream in new information and take on a new theme (a.k.a. helper application such as eBay Search, (ii) visit a viewpoint command to change the visual perspective of the end user in the current virtual space or another virtual space that is hyperlinked to, (iii) record the current viewpoint in the virtual space, (iv) add the output of the
20 desktop the virtual space, (v) add a web browser to the virtual space to view a document, webpage or files and folders on the desktop through a window in the 3D virtual space, (vi) add text command to virtual space, (vii) add a picture to the 3D virtual space, (viii) add music to the 3D virtual space (Figure 22 – Item A), (iv) add video to the 3D virtual space, (x) record sound and add it to the 3D virtual space, (xi) add a map to the 3D virtual space, (xii) add 3D through
25 a VRML, X3D or other file format to the 3D virtual space, and/or (xiii) add advertising to the 3D virtual space in the form of text, pictures, video or other multimedia (e.g., the embodiment of Figure 19, described in further detail below). The addition of such content to a 3D virtual space within the 3D GUI system is diagrammed in Figures 1A-1C – boxes 32, 42, 50, 58, 60, 62, 72, 74, 84, 86, 88, 90, 92, 94, 104.

Once the 3D GUI scene recalculates the geometry in the scene (Figures 1 and 2 — box 24) based on the addition of output, information and content to the 3D virtual space it then redraws the scene (Figures 1 and 2 — box 26), to reflect the addition of this new content. The 3D GUI system will determine the subject or meaning of the output, information and content within the 3D virtual space by indexing all the words associated with (i) the names of the files, HTML pages, viewpoints, hyperlinks and any other available information associated with the 3D virtual space content in the scene, (ii) actual data within the files, HTML pages, viewpoints, hyperlinks and other available information within the 3D virtual space or words entered into the input field of helper application (Figures 1A-1C — box 106), (iii) sort the indexed words by frequency to determine subject of 3D virtual space by identifying most frequently appearing words or utilize other method to determine meaning, (iv) send subject of 3D virtual space to advertising server through internet request (Figures 1A-1C — box 110), (v) return appropriate text, picture(s), video, sound, music, hyperlinks or other advertisement content and respective software code from advertising server, webservice or other location, (vi) draw text, picture(s), video(s), sound(s), music, hyperlinks or other ad content from advertising server or other location into 3D virtual space using program code (Figures 1A-1C — box 114) and (vii) redraw the scene (Figures 1 and 2 — box 26). Those skilled in the art may identify this process of making an advertising request through the internet as many web sites utilize this technology for delivering advertising through the internet.

In one embodiment, shown in Figure 19, when the end-user inputs the search term news into the helper application 640 (e.g., Yahoo! Search), the helper application 640 returns a webpage 642 (e.g., URL <http://www.ncn.com>). The 3D GUI system can further utilize the input term (in this case news) (see Figures 1A-1C — box 104) and returns a group of advertising text 644. The advertising text 644 can be incorporated into the 3D virtual space 300 by presenting the text along with its: (a) hyperlink and associated title (News on eBay); (b) description (Find news items at low prices. With over 5 million items for sale every day, you'll...); and (c) url www.ebay.com, thereby resulting in a more detailed advertisement 646. Currently, text advertisements are prevalent on the world wide web and therefore have been incorporated in this embodiment of the invention. However, it will be understood that other forms of advertising,

such as, for example, picture(s), video(s), sound(s), music, hyperlinks, and/or multimedia, and/or combinations thereof, can be incorporated into the 3D virtual space 300.

5 The present invention provides many advantages over the prior art, including, but not limited to, increased space on the user's desktop, eliminating the need to constantly open and close programs or hide and reveal them each time the user needs them, utilizing dormant
10 computing time to download and/or display information, reducing mouse-clicks and offering a more natural alternative to accessing programs and documents than the traditional folders-within-folders storage system. For example, in the exemplary embodiment of Figure 12, forty webpages are output into the 3D virtual space 300 organized into their respective 3D stacks 470,
15 472, 474, 476, and 478, wherein the stacks are represented in the timeline 340 as icons 480, 482, 484, 486, and 488, respectively. As explained above, the present invention also improves the web browser and desktop experience by offering a novel 3D graphical user interface.

In accordance with yet another aspect of the embodiments described herein, there is provided a memory management method whereby computer memory is allocated to the 3D GUI
20 system at the program's request and freed up for reuse when it is no longer needed by unloading memory. More specifically, there is provided a method of using virtual memory whereby a portion of the hard disk is used to swap out this data when insufficient RAM exists to hold all such data. In one embodiment, an end user plots the output of information into the 3D GUI within 3D stacks whereby each new visual event additionally marked with an icon on the
25 timeline. Additional output of information into the 3D GUI virtual space results in the creation of new 3D stacks along with new icons drawn in succession on the timeline creating what is called linear path of the end user's actions through a virtual space as expressed with through a timeline and 3D stack. If this process continues indefinitely, the memory or electronic holding place for this data that the 3D GUI system can access quickly will be used up. In order to create
an ending computer experience whereby the end user need not reach such a memory limit, provided herein is a system whereby once a memory limit is reached, the 3D GUI system marks a point in the program representing the position of the end user on this linear path and unloads the memory by saving it to virtual memory. This freeing up of memory will allow the end user to continually output new information into the virtual space. This process of unloading memory

to virtual memory and continually outputting new information into the virtual space can go on indefinitely. Should the end user backtrack or retrace one's course over a portion of the linear path (or track) that has already been completed, the 3D GUI system will reload to memory the information stored in virtual memory once the end user revisits any mark on the linear path.

5 The present invention can be used in a number of applications, including, but not limited to, search engines, desktops, visual music download services, shopping malls, collaborative space for shared documents, collaborative space for video conferencing, tool for publishing webpages, virtual networked computer system, interface for cable TV sets or multimedia PCs, computing interface for large flat panel displays, forum for educational training and
10 visualization, and e-mail visualization programs, just to name a few. Even though the present invention is described here within the embodiment of an operating system that utilizes a desktop personal computer with a monitor, those skilled in the art will be able to adapt the system to work on other electronic devices, such as, for example, cell phones, pdas, handheld mobile devices, flat panel displays, or the like, etc., without giving up the spirit of the invention.

15 Having thus described a preferred embodiment of a method and system for providing an improved three-dimensional graphical user interface, it should be apparent to those skilled in the art that certain advantages of the within system have been achieved. It should also be appreciated that various modifications, adaptations, and alternative embodiments thereof may be made within the scope and spirit of the present invention. For example, the improved 3D GUI
20 has been presented in the context of a windows operating system, but it should be apparent that many of the inventive concepts described above would be equally applicable for other operating systems and devices.

CLAIMS

What is Claimed is:

1. A method for providing a three-dimensional graphical user interface, comprising:
receiving an input from an end user;
5 capturing computing output from at least one computer source in response to the received end user input;
presenting the computing output as at least two objects within a three-dimensional virtual space displayed to the end user;
generating a timeline that includes an icon for each object presented within the
10 virtual space, wherein each of the icons are organized in linear chronological order according to when the objects were presented within the virtual space; and
displaying the timeline within the virtual space.
2. The method of Claim 1, wherein presenting the computing output as at least two
15 objects within a three-dimensional virtual space comprises presenting the at least two objects within a simulated three-dimensional Cartesian space.
3. The method of Claim 1, wherein receiving an input comprises receiving an search
query entered by the end user.
20
4. The method of Claim 1, wherein capturing computing output from at least one
computer source comprises capturing at least one output from a network server.
5. The method of Claim 4, wherein capturing at least one output from a remote
25 internet site comprises:
capturing a first output from a first web search service; and
capturing a second output from a second web search service.
6. The method of Claim 5, wherein capturing a first output from a first web search
30 service comprises running a first web search based on a first search term entered by the end user.

7. The method of Claim 6, wherein capturing a second output from a second web search service comprises running a second web search based on the first search term.

5 8. The method of Claim 6, wherein capturing a second output from a second web search service comprises running a second web search based on a second search term entered by the end user.

9. The method of Claim 1, wherein capturing computing output from at least one computer source comprises capturing at least one output from a local operating system.

10

10. The method of Claim 9, wherein capturing at least one output from a local operating system comprises dragging and dropping a first object from the local operating system into the virtual space.

15

11. The method of Claim 1, wherein capturing computing output from at least one computer source comprises capturing at least one output from a remote operating system.

20

12. The method of Claim 1, wherein presenting the computing output as at least two objects comprises displaying the at least two objects in association with each other within the virtual space.

25

13. The method of Claim 12, wherein displaying the at least two objects in association with each other comprises displaying the at least two objects as a 3D stack within the virtual space.

30

14. The method of Claim 1, wherein presenting the computing output as at least two objects comprises displaying the at least two objects in the virtual space according to a changeable gestalt.

15. The method of Claim 1, wherein presenting the computing output as at least two objects comprises displaying one of the at least two objects as a 3D stack within the virtual space.

16. The method of Claim 1, wherein presenting the computing output as at least two objects comprises displaying one of the at least two objects as a window within the virtual space.

5 17. The method of Claim 1, wherein presenting the computing output as at least two objects comprises utilizing programmatic access to generate the at least two objects.

18. The method of Claim 3, wherein presenting the computing output as at least two objects comprises providing a first object with a first hyperlink.

10 19. The method of Claim 18, wherein clicking on the first hyperlink causes a second object to appear in association with a chosen gestalt in the virtual space.

15 20. The method of Claim 19, wherein clicking on the first hyperlink causes a third object to appear in association with the chosen gestalt in the virtual space.

21. The method of Claim 1, further comprising saving an arrangement of the least two objects as a viewpoint for retrieval at a later time.

20 22. The method of Claim 21, further comprising adding a viewpoint icon representing the viewpoint into the timeline for retrieval of the viewpoint at a later time.

23. The method of Claim 22, further comprising recreating the viewpoint for display within the virtual space when the end user clicks on the viewpoint icon in the timeline.

25 24. The method of Claim 1, further comprising saving an arrangement of the icons in the timeline for retrieval at a later time.

30 25. The method of Claim 1, further comprising projecting one of the at least two objects as a heads-up display.

26. A system for providing a three-dimensional graphical user interface, comprising:
a display screen;
an input device for receiving an input from an end user;
a processor module operatively coupled to the display screen and the user input
5 device; and
a memory module operatively coupled to the processor module, the memory
module comprising executable code for the processor module to:
capture computing output from at least one computer source in response to
the received end user input;
10 present the computing output as at least two objects within a three-
dimensional virtual space displayed on the display screen;
generate a timeline that includes an icon for each object presented within
the virtual space, wherein each of the icons are organized in linear chronological
order according to when the objects were presented within the Cartesian space;
15 and
display the timeline within the virtual space.

27. The system as recited in Claim 26, wherein the processor module presents the
computing output as at least two objects within a three-dimensional virtual space by presenting
20 the at least two objects within a simulated three-dimensional Cartesian space.

28. The system as recited in Claim 26, wherein the processor module receives an
input by receiving an internet search query entered by the end user.

29. The system as recited in Claim 26, wherein the processor module captures
computing output from at least one computer source by capturing at least one output from a
remote internet site.

30. The system as recited in Claim 26, wherein the processor module captures
30 computing output from at least one computer source by capturing at least one output from a local
operating system.

31. The system as recited in Claim 26, wherein the processor module captures computing output from at least one computer source by capturing at least one output from a remote operating system.

5

32. The system as recited in Claim 26, wherein the processor module presents the computing output as at least two objects by displaying the at least two objects as a 3D stack within the virtual space.

10

33. The system as recited in Claim 26, wherein the processor module presents the computing output as at least two objects by displaying the at least two objects as a 3D stack within the virtual space.

15

34. The system as recited in Claim 26, wherein the processor module presents the computing output as at least two objects by displaying the at least two objects as two or more 3D stacks within the virtual space.

20

35. The system as recited in Claim 26, wherein the processor module presents the computing output as at least two objects by utilizing programmatic access to generate the at least two objects.

36. The system as recited in Claim 29, wherein the processor module presents the computing output as at least two objects by providing at least one web page in the virtual space.

25

37. The system as recited in Claim 26, wherein the memory module further comprises executable code for the processor to save the arrangement of the least two objects in the virtual space as a viewpoint for retrieval at a later time.

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38. The system as recited in Claim 38, wherein the memory module further comprises executable code for the processor to add a viewpoint icon representing the viewpoint into the timeline for retrieval of the viewpoint at a later time.

39. The system as recited in Claim 38, wherein the memory module further comprises executable code for the processor to recreate the viewpoint for display in the virtual space when the end user clicks on the viewpoint icon in the timeline.

5 40. The system as recited in Claim 26, wherein the memory module further comprises executable code for the processor to save the arrangement of the icons in the timeline for retrieval at a later time.

41. The system as recited in Claim 26, wherein the memory module further comprises
10 executable code for the processor to project one of the at least two objects as a heads-up display.

42. A system for providing a three-dimensional graphical user interface in a computer network, comprising:

a server connected to the computer network and a user interface application
15 executing in association with the server to provide the functions of:

receiving an input from an end user;

capturing computing output from at least one computer source in response
to the received end user input;

20 presenting the computing output as at least two objects within a three-dimensional virtual space displayed to the end user;

generating a timeline that includes an icon for each object presented
within the virtual space, wherein each of the icons are organized in linear
chronological order according to when the objects were presented within the
Cartesian space; and

25 displaying the timeline within the virtual space.

43. The system as recited in Claim 42, wherein the server presents the computing
output as at least two objects within a three-dimensional virtual space by presenting the at least
two objects within a simulated three-dimensional Cartesian space.

30

44. The system as recited in Claim 42, wherein the server receives an input by receiving an internet search query entered by the end user.

5 45. The system as recited in Claim 42, wherein the server captures computing output from at least one computer source by capturing at least one output from a remote internet site.

46. The system as recited in Claim 42, wherein the server captures computing output from at least one computer source by capturing at least one output from a local operating system.

10 47. The system as recited in Claim 42, wherein the server captures computing output from at least one computer source by capturing at least one output from a remote operating system.

15 48. The system as recited in Claim 42, wherein the server presents the computing output as at least two objects by displaying the at least two objects as a 3D stack within the virtual space.

20 49. The system as recited in Claim 42, wherein the server presents the computing output as at least two objects by displaying the at least two objects as a 3D stack within the virtual space.

25 50. The system as recited in Claim 42, wherein the server presents the computing output as at least two objects by displaying the at least two objects as two or more 3D stacks within the virtual space.

51. The system as recited in Claim 42, wherein the server presents the computing output as at least two objects by utilizing programmatic access to generate the at least two objects.

30 52. The system as recited in Claim 45, wherein the server presents the computing output as at least two objects by providing at least one web page in the virtual space.

53. The system as recited in Claim 42, wherein the user interface application executes in association with the server to provide the further function of saving the arrangement of the least two objects in the virtual space as a viewpoint for retrieval at a later time.

5 54. The system as recited in Claim 53, wherein the user interface application executes in association with the server to provide the further function of adding a viewpoint icon representing the viewpoint into the timeline for retrieval of the viewpoint at a later time.

10 55. The system as recited in Claim 54, wherein the memory module further comprises executable code for the processor to recreate the viewpoint for display in the virtual space when the end user clicks on the viewpoint icon in the timeline.

15 56. The system as recited in Claim 42, wherein the user interface application executes in association with the server to provide the further function of saving the arrangement of the icons in the timeline for retrieval at a later time.

57. The system as recited in Claim 42, wherein the user interface application executes in association with the server to provide the further function of projecting one of the at least two objects as a heads-up display.

20

58. A network system for providing a three-dimensional graphical user interface, comprising:

a computer server network comprising a plurality of servers in communication with each other;

5 at least one display screen operatively coupled to the computer server network;

at least one input device for receiving an input from an end user, the input device being operatively coupled to the computer server network; and

10 a software module for providing a series of screen displays to the end user, the software module being accessible by one or more of the servers of the computer server network, the software module comprising instructions for directing the servers to:

capture computing output from at least one network source in response to the received end user input;

present the computing output as at least two objects within a simulated three-dimensional Cartesian space displayed on the display screen;

15 generate a timeline that includes an icon for each object presented within the Cartesian space, wherein each of the icons are organized in linear chronological order according to when the objects were presented within the Cartesian space; and

display the timeline within the Cartesian space.

20

59. A computer readable recording medium for storing a computer program that makes a computer execute:

receiving an input from an end user;

capturing computing output from at least one computer source in response to the received end user input;

presenting the computing output as at least two objects within a simulated three-dimensional Cartesian space displayed to the end user;

generating a timeline that includes an icon for each object presented within the Cartesian space, wherein each of the icons are organized in linear chronological order according to when the objects were presented within the Cartesian space; and

displaying the timeline within the Cartesian space.

60. A method for providing a three-dimensional graphical user interface, comprising:

receiving an input from an end user;

capturing computing output from at least one computer source in response to the received end user input;

presenting the computing output as at least two objects within a three-dimensional virtual space displayed to the end user;

providing a database module for storing and categorizing data regarding each object presented within the virtual space; and

displaying the data regarding one or more of the objects within the database module presented along with virtual space.

61. The method of Claim 60, further comprising providing within the database module hyperlinks to respective viewpoints of the objects for which the data is displayed.

62. The method of Claim 60, further comprising:

generating a timeline that includes an icon for each object presented within the virtual space, wherein each of the icons are organized in linear chronological order according to when the objects were presented within the virtual space; and

5 displaying the timeline within the virtual space.

63. A system for providing a three-dimensional graphical user interface, comprising:
a display screen;

an input device for receiving an input from an end user;

10 a processor module operatively coupled to the display screen and the user input device; and

a memory module operatively coupled to the processor module, the memory module comprising executable code for the processor module to:

15 capture computing output from at least one computer source in response to the received end user input;

present the computing output as at least two objects within a three-dimensional virtual space displayed on the display screen;

provide a database module for storing and categorizing data regarding each object presented within the virtual space;

20 provide a hyperlink within the database module to respective viewpoint of each object presented within the virtual space; and

display the data regarding one or more of the objects within the database module presented along with virtual space.

64. A system for providing a three-dimensional graphical user interface in a computer network, comprising:

a server connected to the computer network and a user interface application executing in association with the server to provide the functions of:

5 receiving an input from an end user;

capturing computing output from at least one computer source in response to the received end user input;

presenting the computing output as at least two objects within a three-dimensional virtual space displayed to the end user;

10 providing a database module for storing and categorizing data regarding each object presented within the virtual space;

providing a hyperlink within the database module to respective viewpoint of each object presented within the virtual space; and

15 displaying the data regarding one or more of the objects within the database module presented along with virtual space.

65. A network system for providing a three-dimensional graphical user interface, comprising:

a computer server network comprising a plurality of servers in communication with each other;

5 at least one display screen operatively coupled to the computer server network;

at least one input device for receiving an input from an end user, the input device being operatively coupled to the computer server network; and

10 a software module for providing a series of screen displays to the end user, the software module being accessible by one or more of the servers of the computer server network, the software module comprising instructions for directing the servers to:

capture computing output from at least one network source in response to the received end user input;

present the computing output as at least two objects within a simulated three-dimensional Cartesian space displayed on the display screen;

15 provide a database module for storing and categorizing data regarding each object presented within the virtual space;

provide a hyperlink within the database module to respective viewpoint of each object presented within the virtual space; and

20 display the data regarding one or more of the objects within the database module presented along with virtual space.

66. A computer readable recording medium for storing a computer program that makes a computer execute:

receiving an input from an end user;

capturing computing output from at least one computer source in response to the received end user input;

presenting the computing output as at least two objects within a simulated three-dimensional Cartesian space displayed to the end user;

providing a database module for storing and categorizing data regarding each object presented within the virtual space;

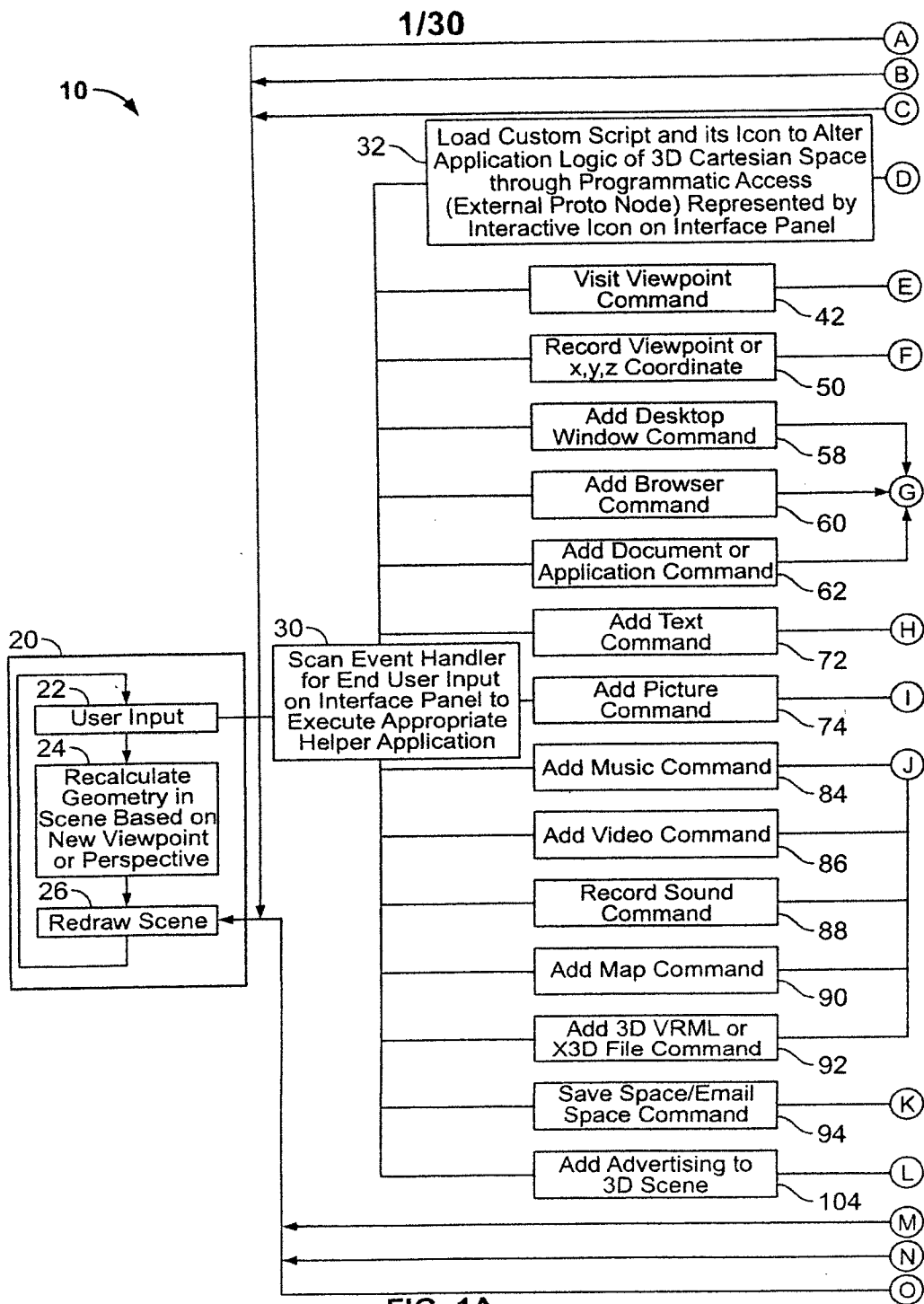
provide a hyperlink within the database module to respective viewpoint of each object presented within the virtual space; and

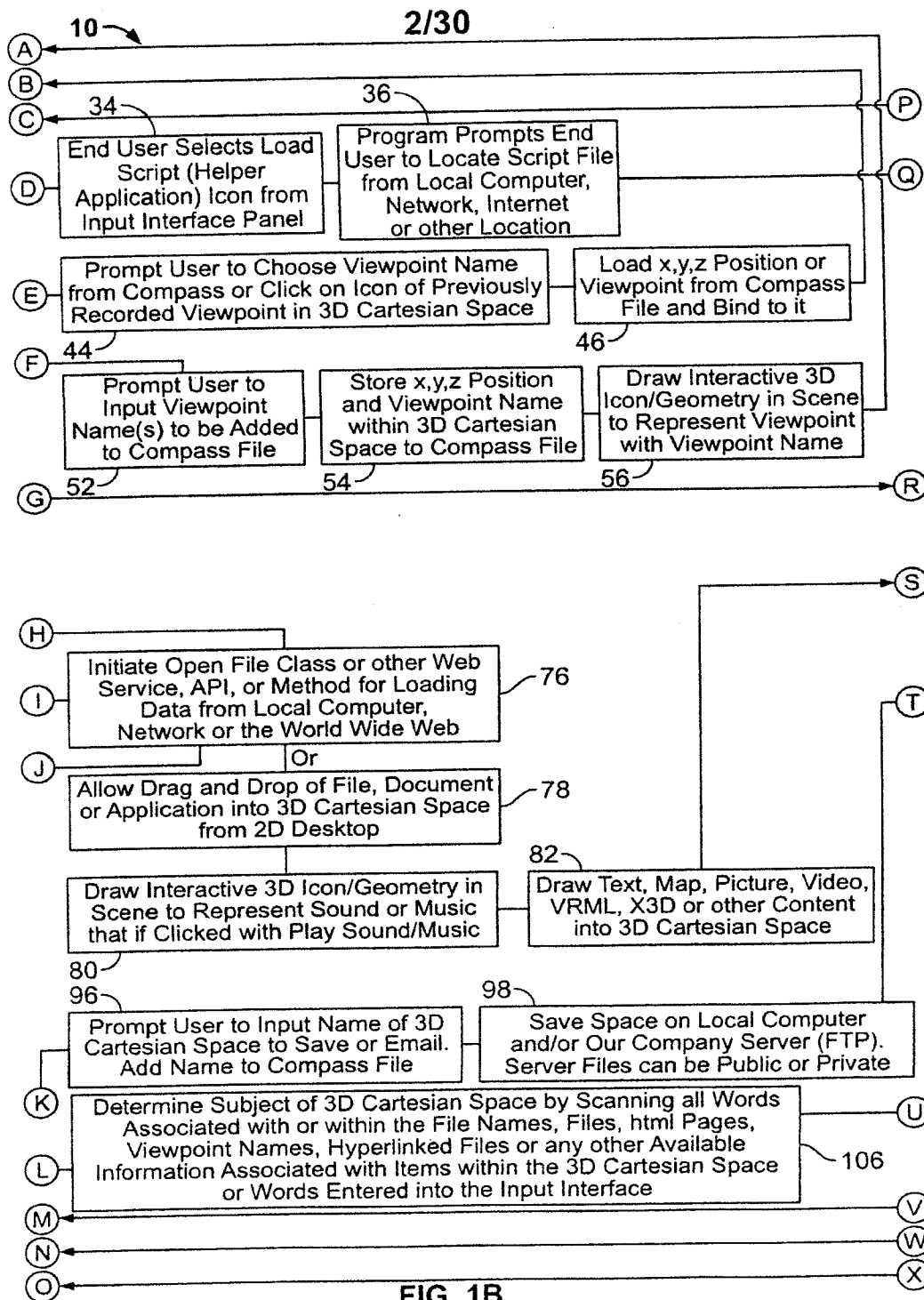
displaying the data regarding one or more of the objects within the database module presented along with virtual space.

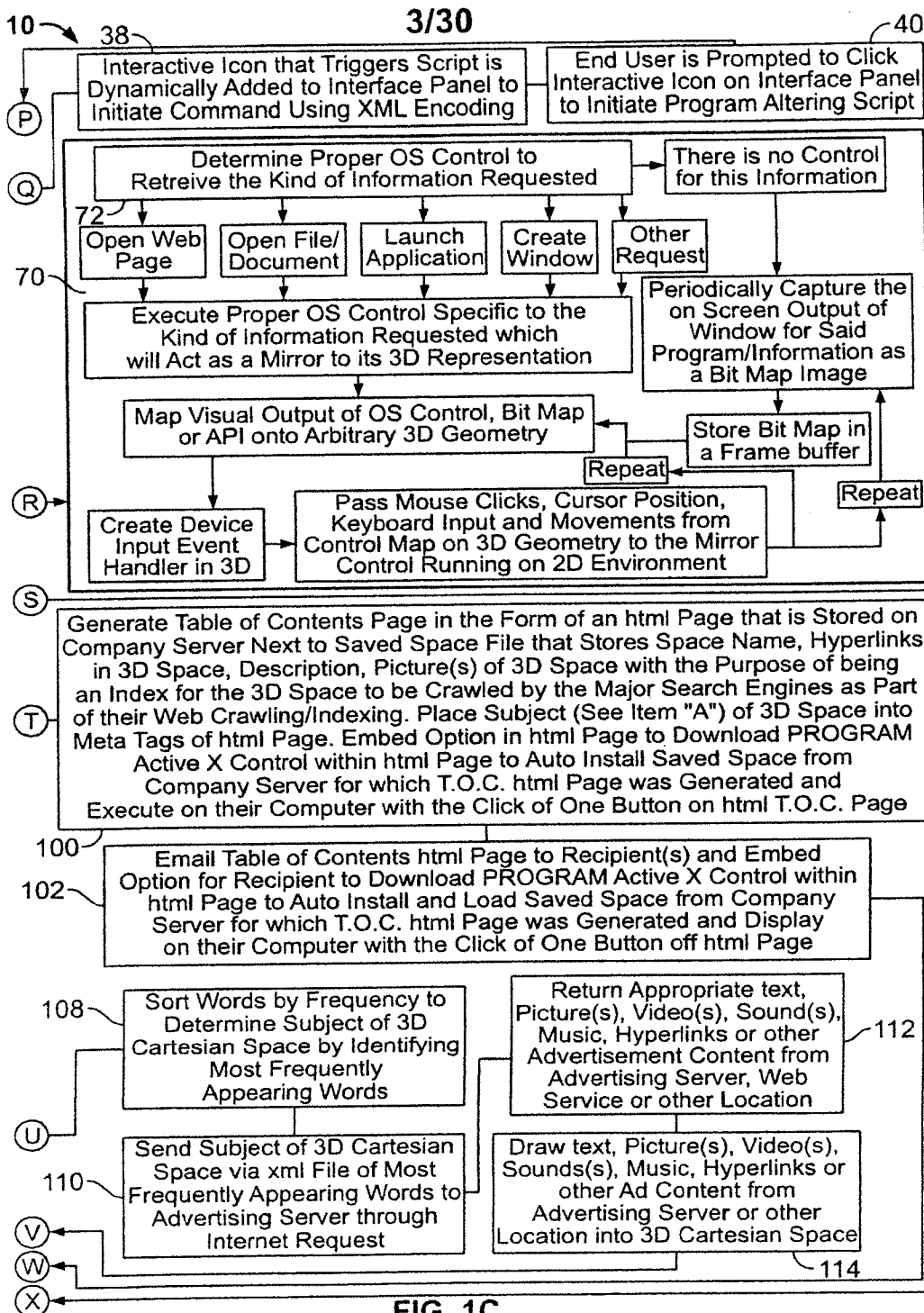
**SYSTEM AND METHOD FOR PROVIDING THREE-DIMENSIONAL
GRAPHICAL USER INTERFACE**

ABSTRACT OF THE DISCLOSURE

5 Methods and systems are provided for providing an improved three-dimensional graphical user interface. In one embodiment, the method generally comprises: receiving an input from an end user, and capturing computing output from at least one computer source in response to the received end-user input. The computing output can be presented as two or more objects within a three-dimensional virtual space displayed to the end user. In one embodiment, the
10 method further comprises generating a timeline that includes an icon for each object presented within the virtual space. In another embodiment, the method further comprises providing a database for storing and categorizing data regarding each object presented within the virtual space.







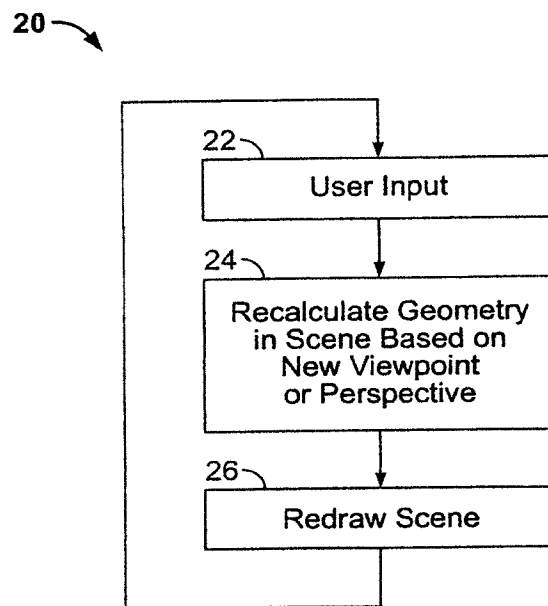


FIG. 2

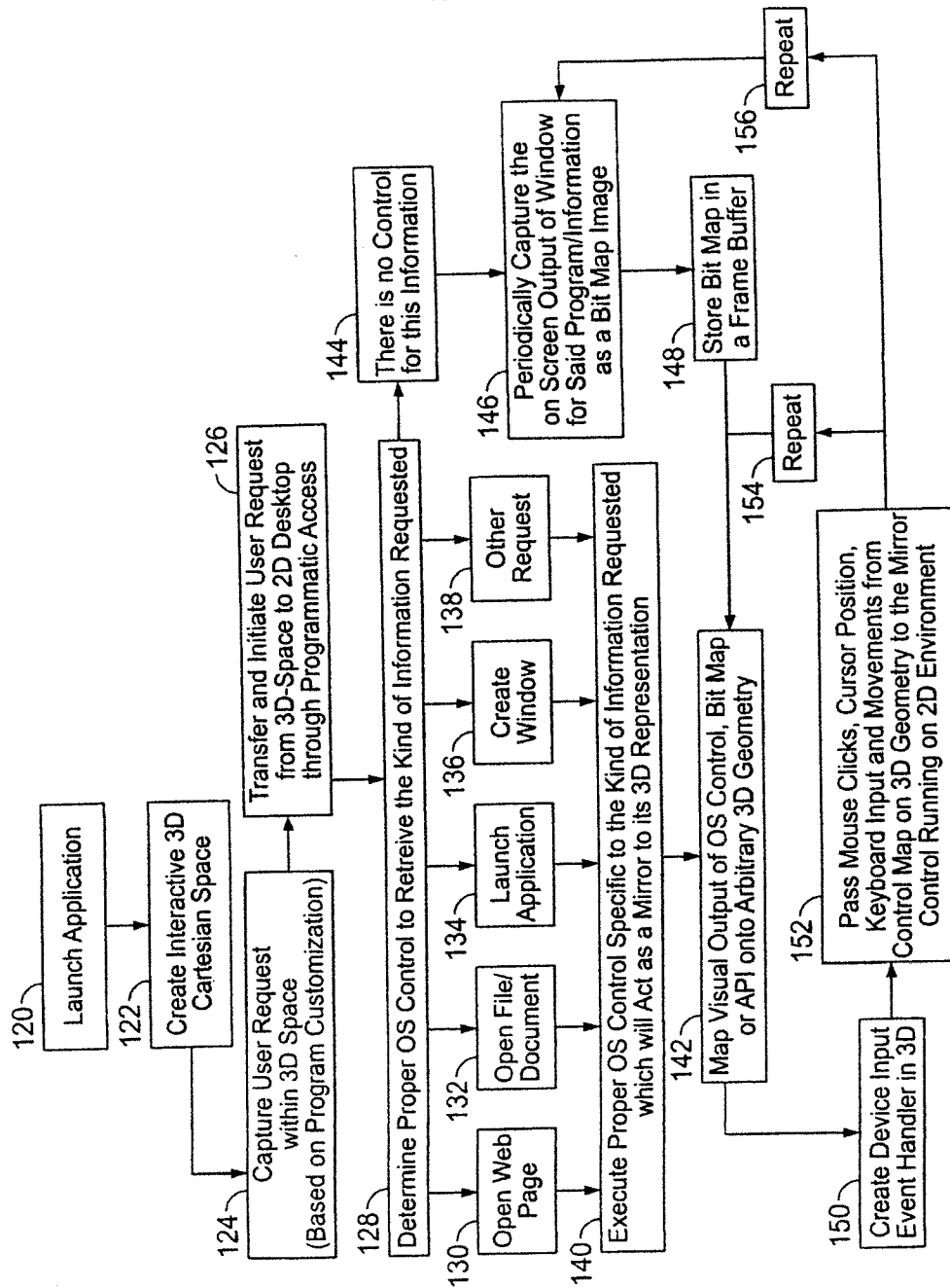


FIG. 3

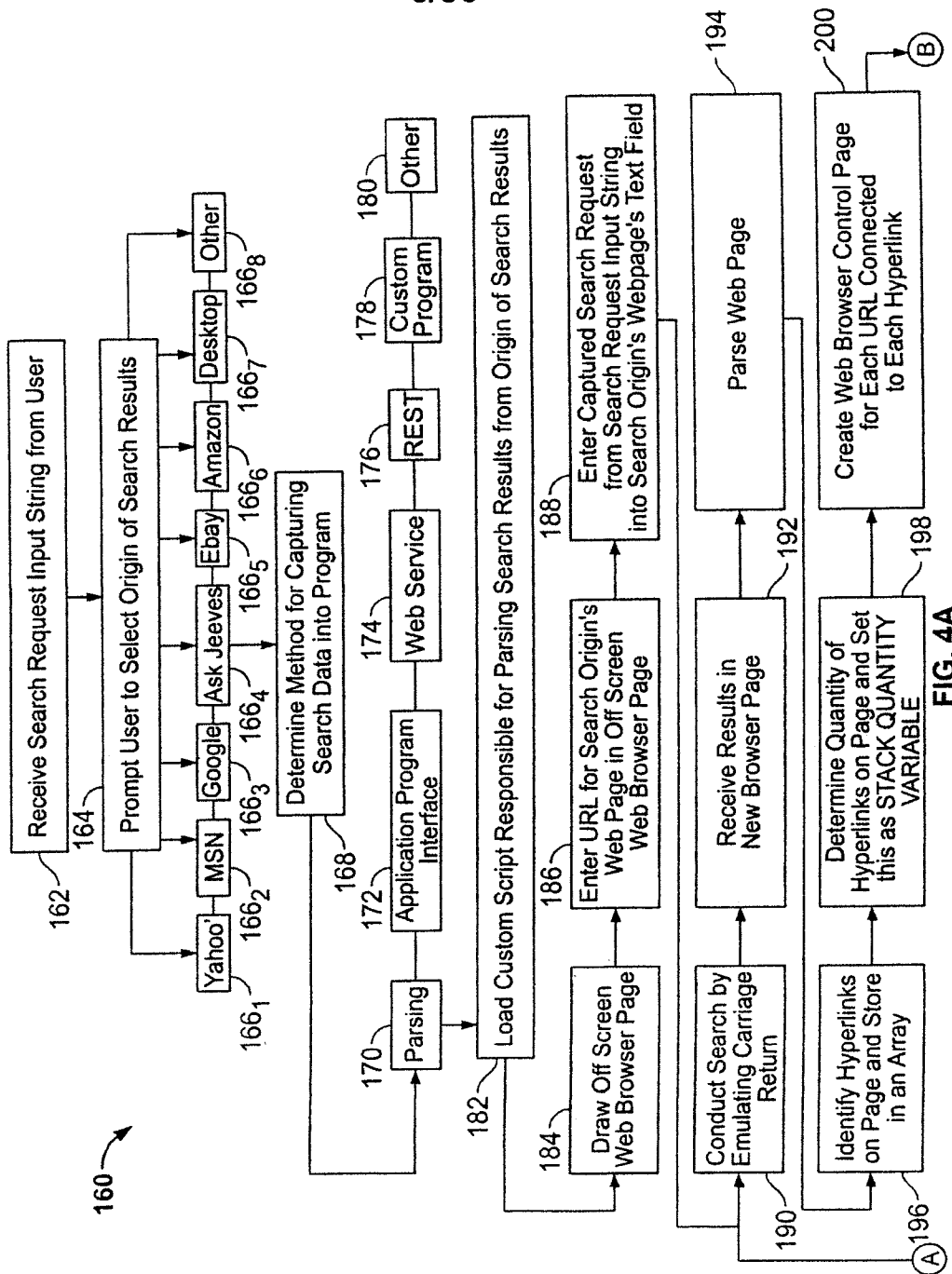


FIG. 4A

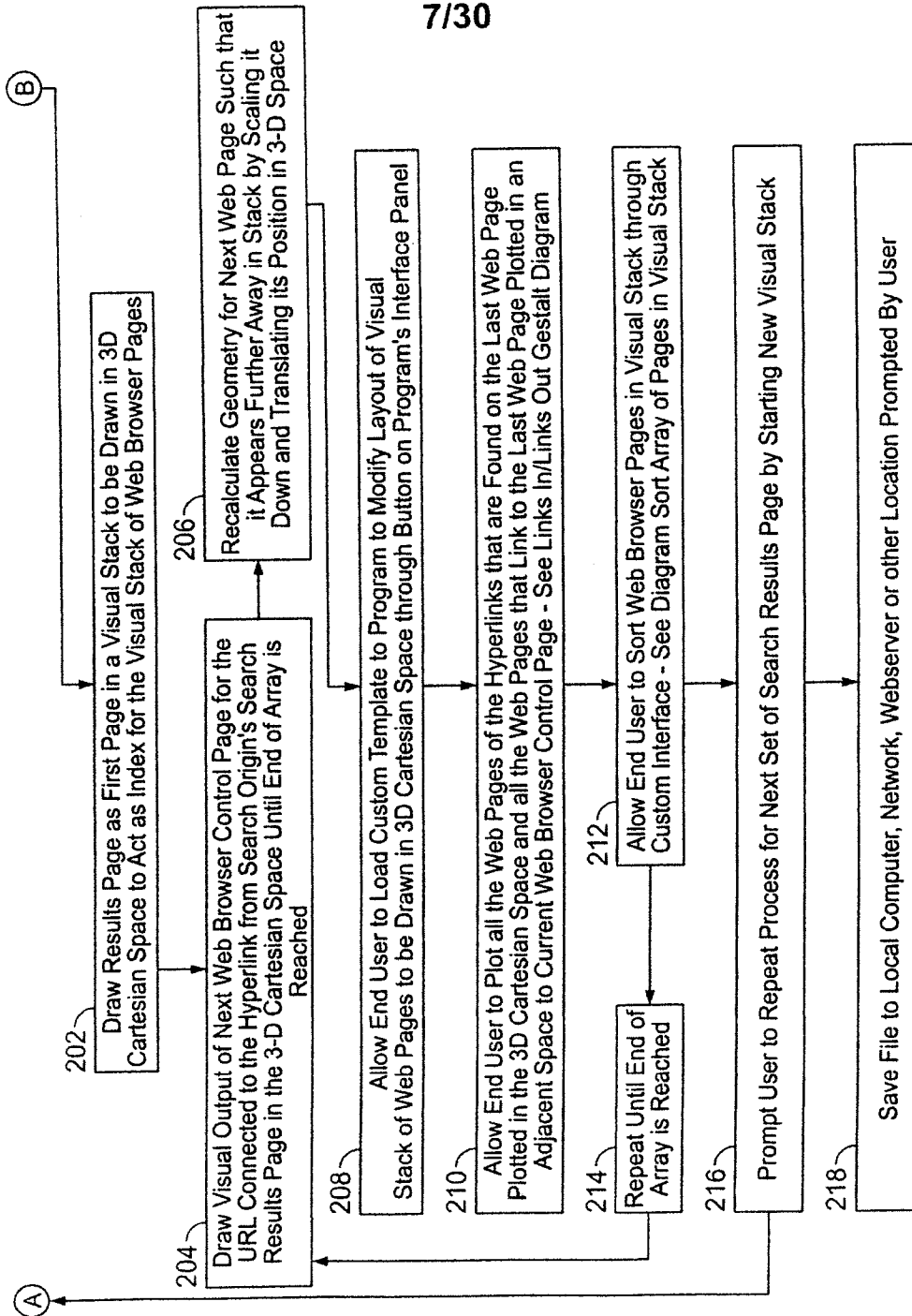


FIG. 4B

8/30

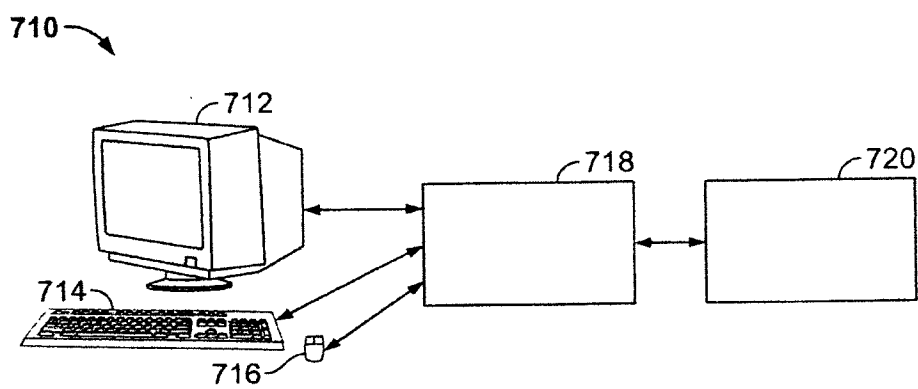


FIG. 5A

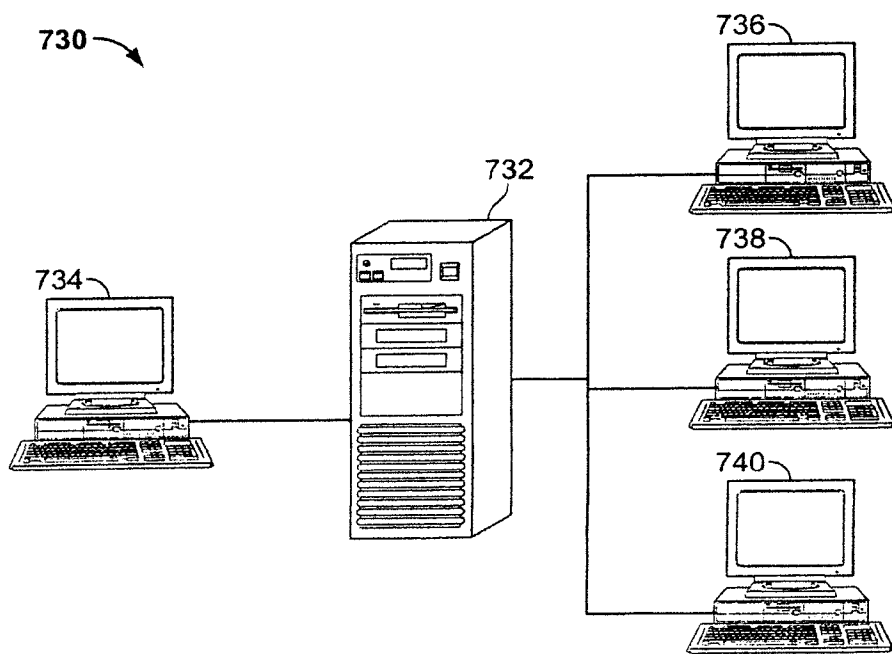


FIG. 5B

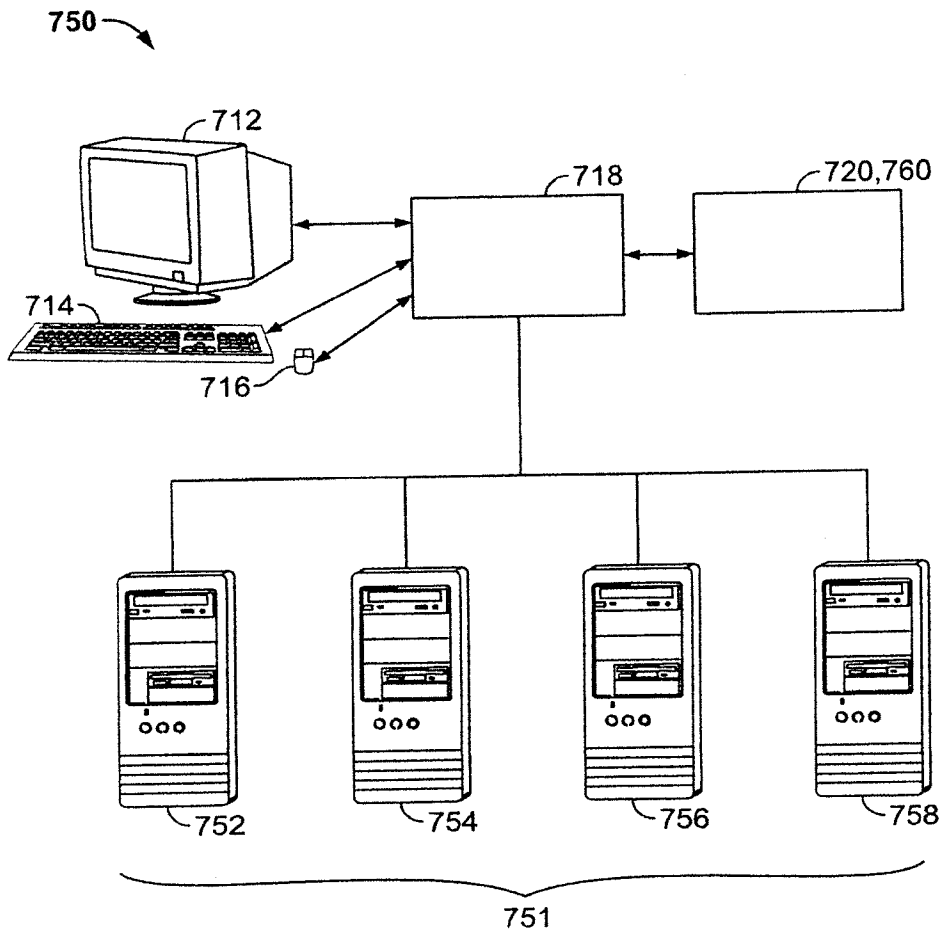


FIG. 5C

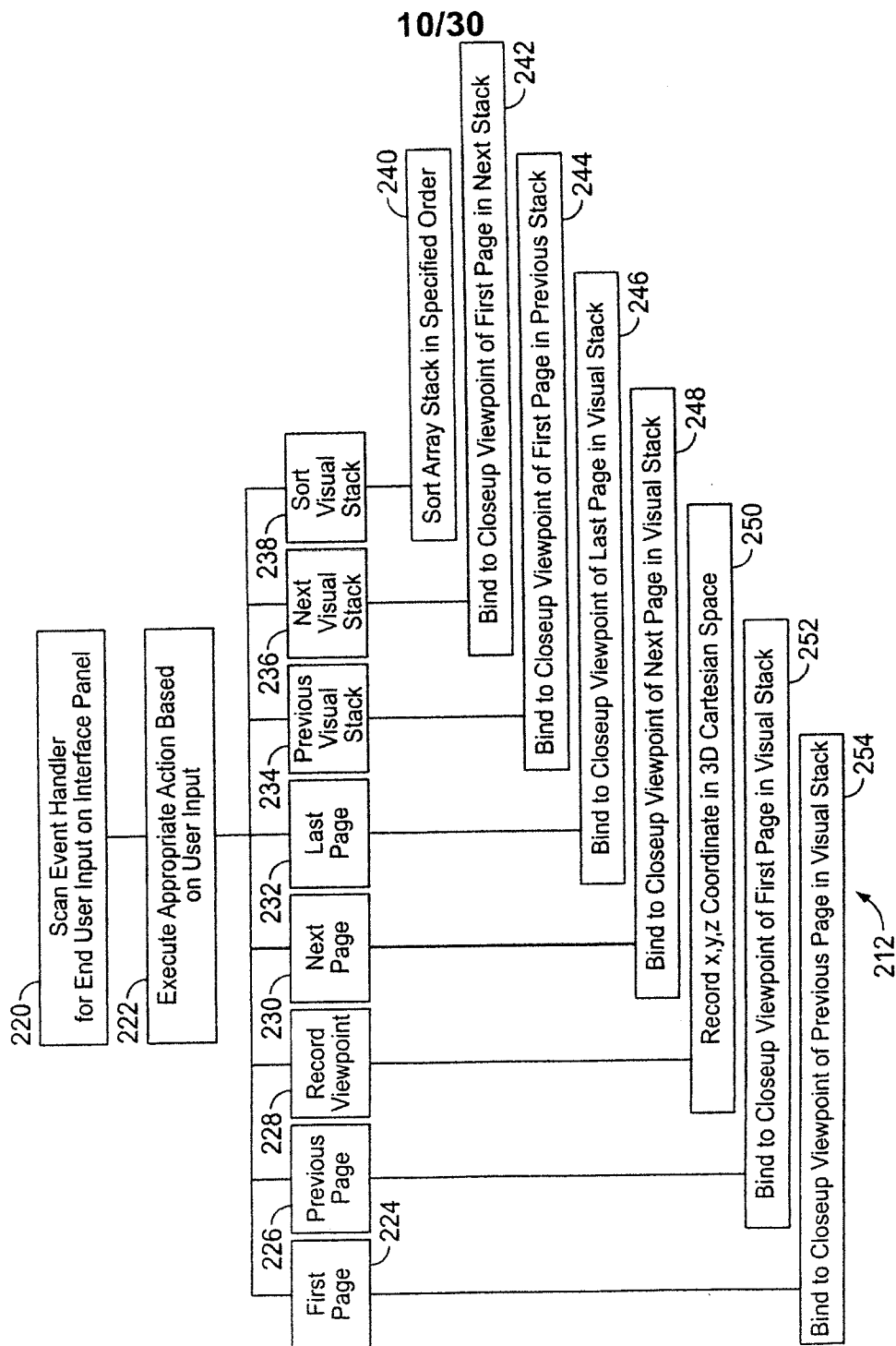


FIG. 6

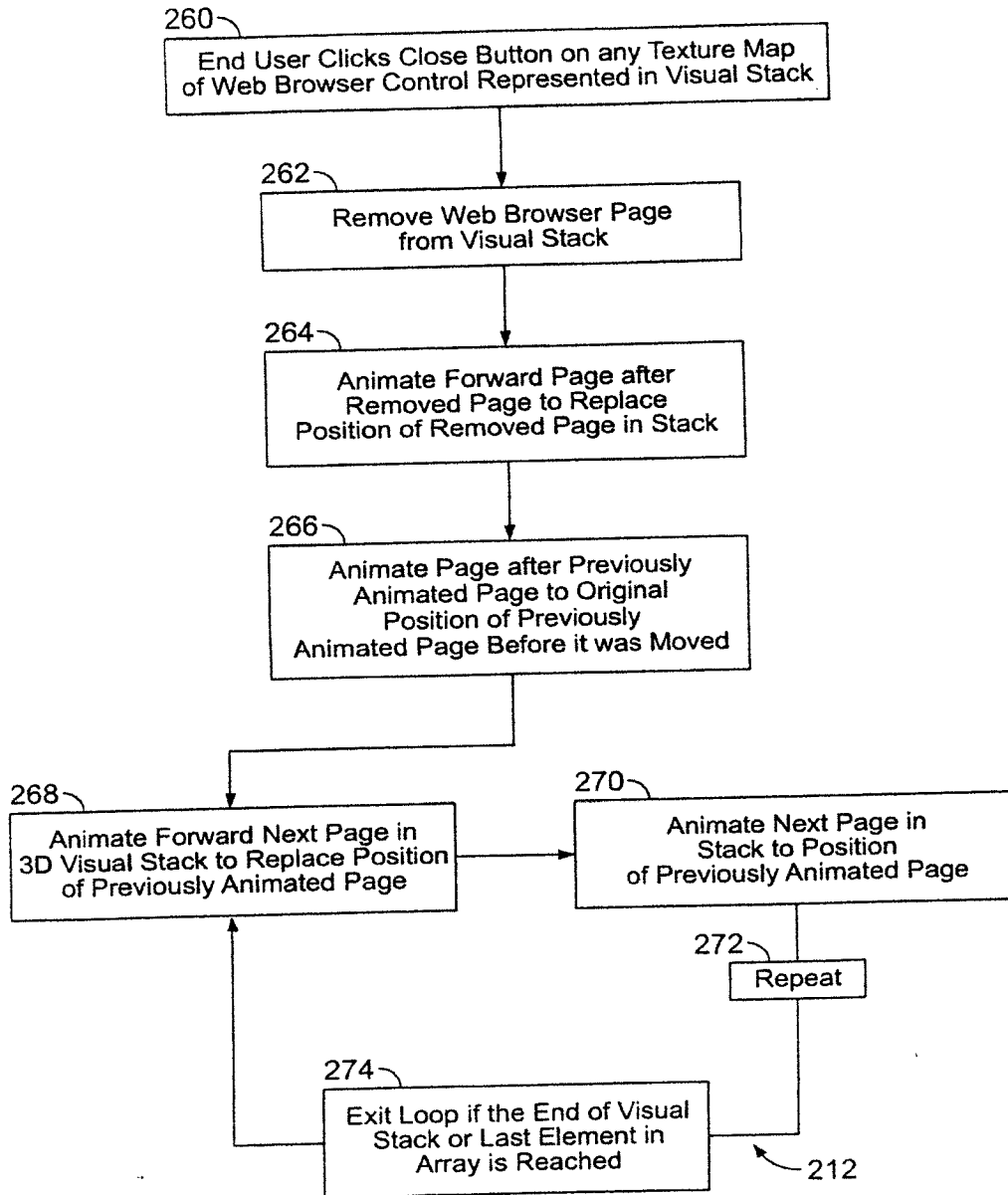


FIG. 7

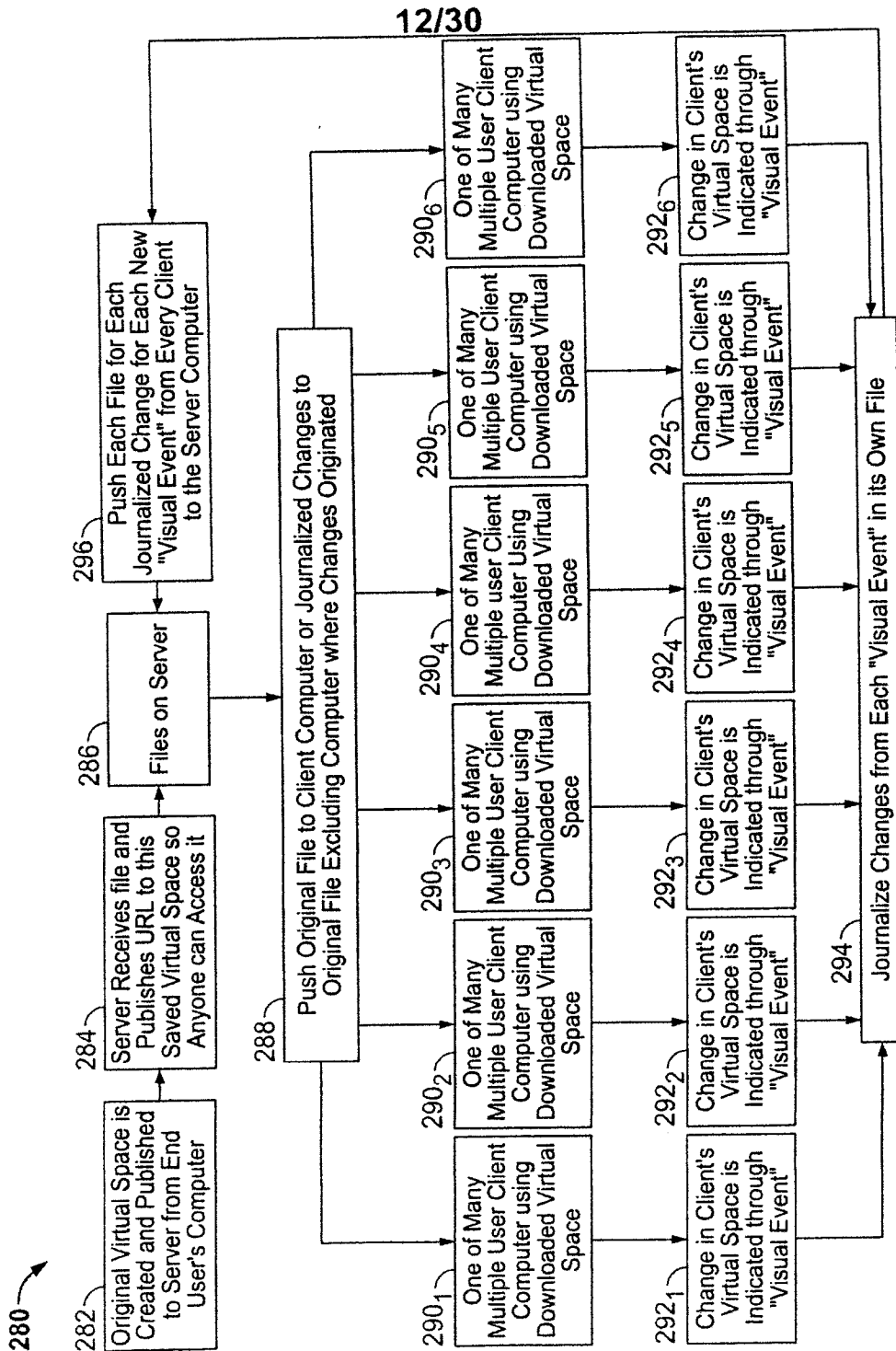


FIG. 8

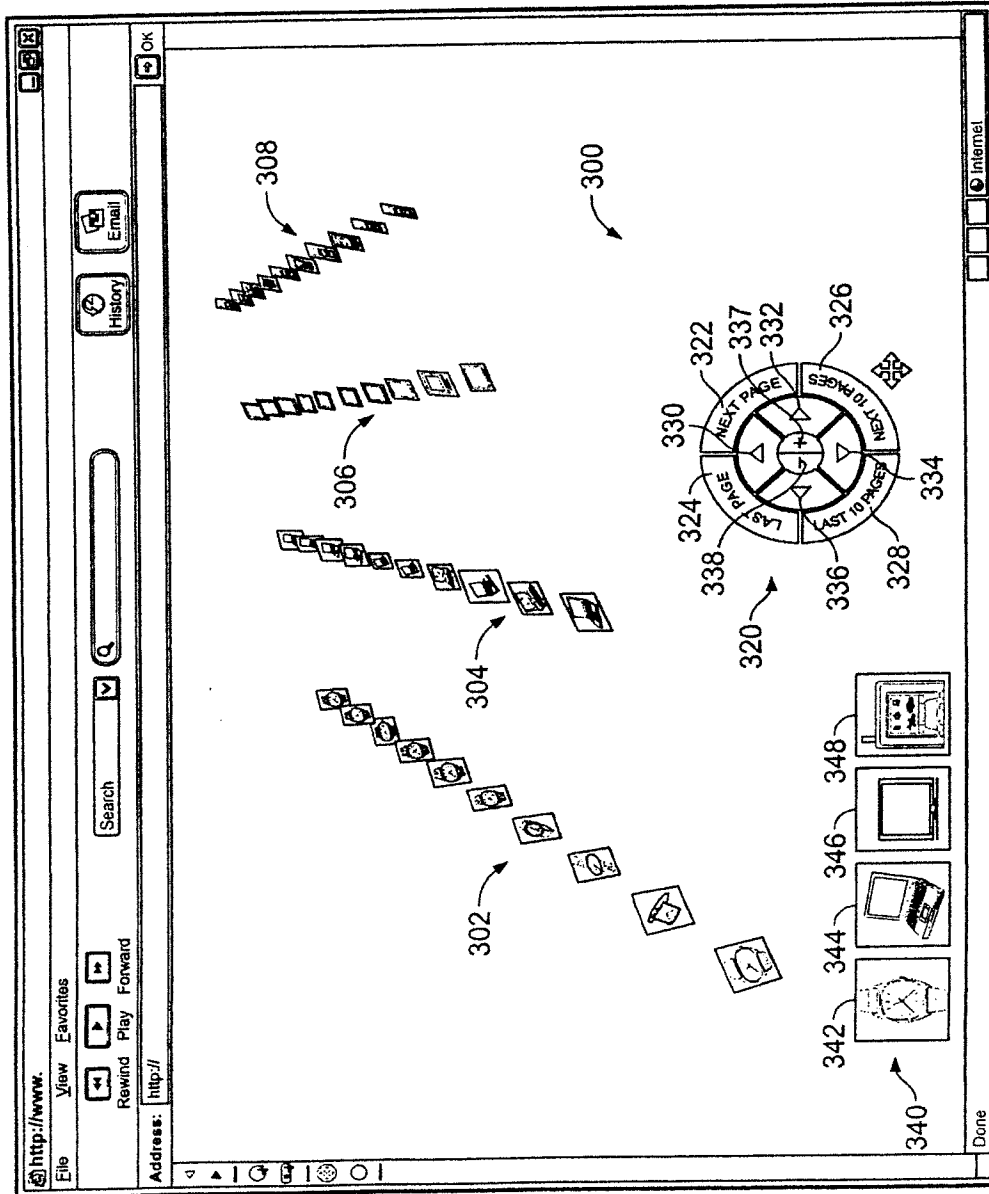
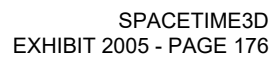


FIG. 9



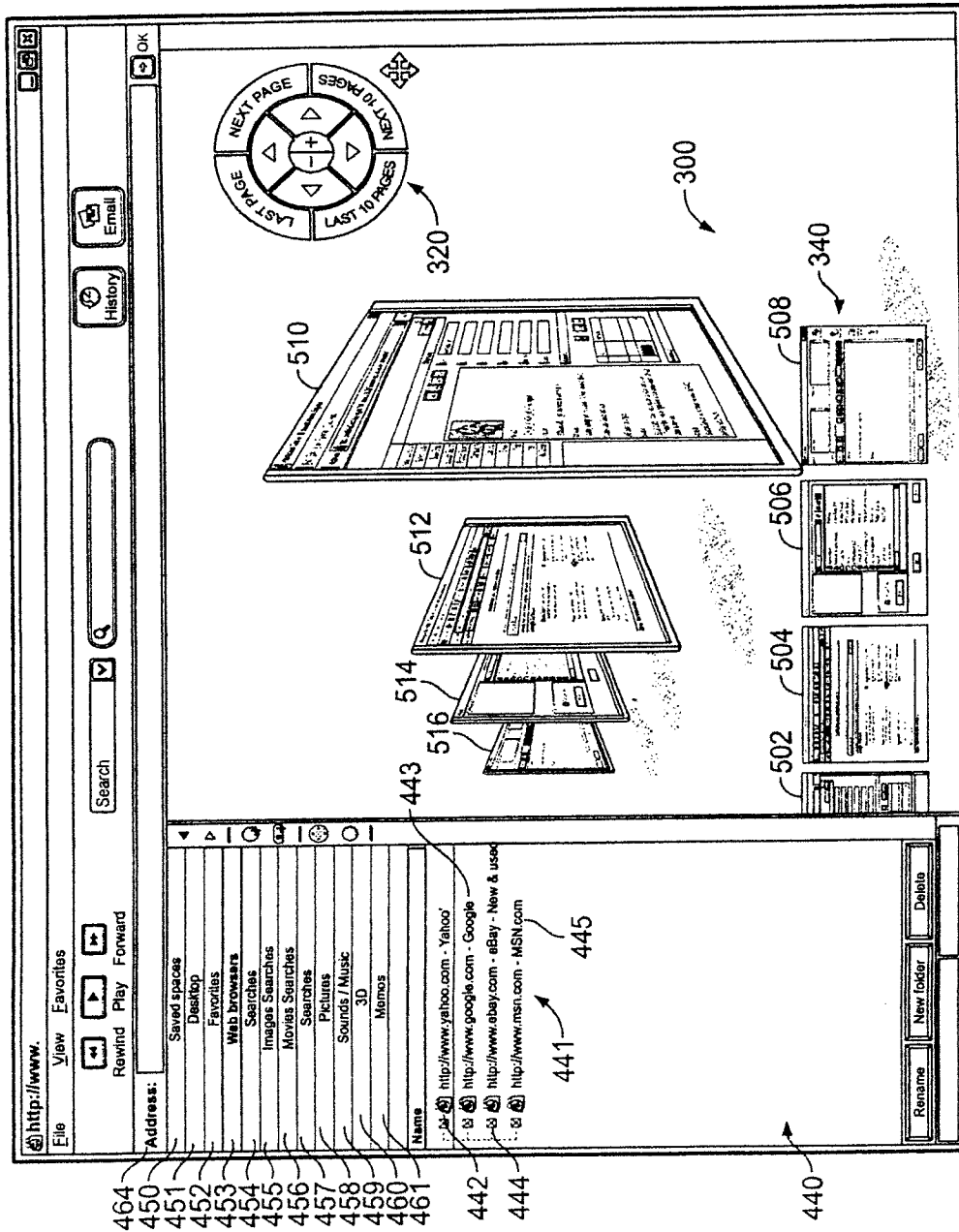


FIG. 11

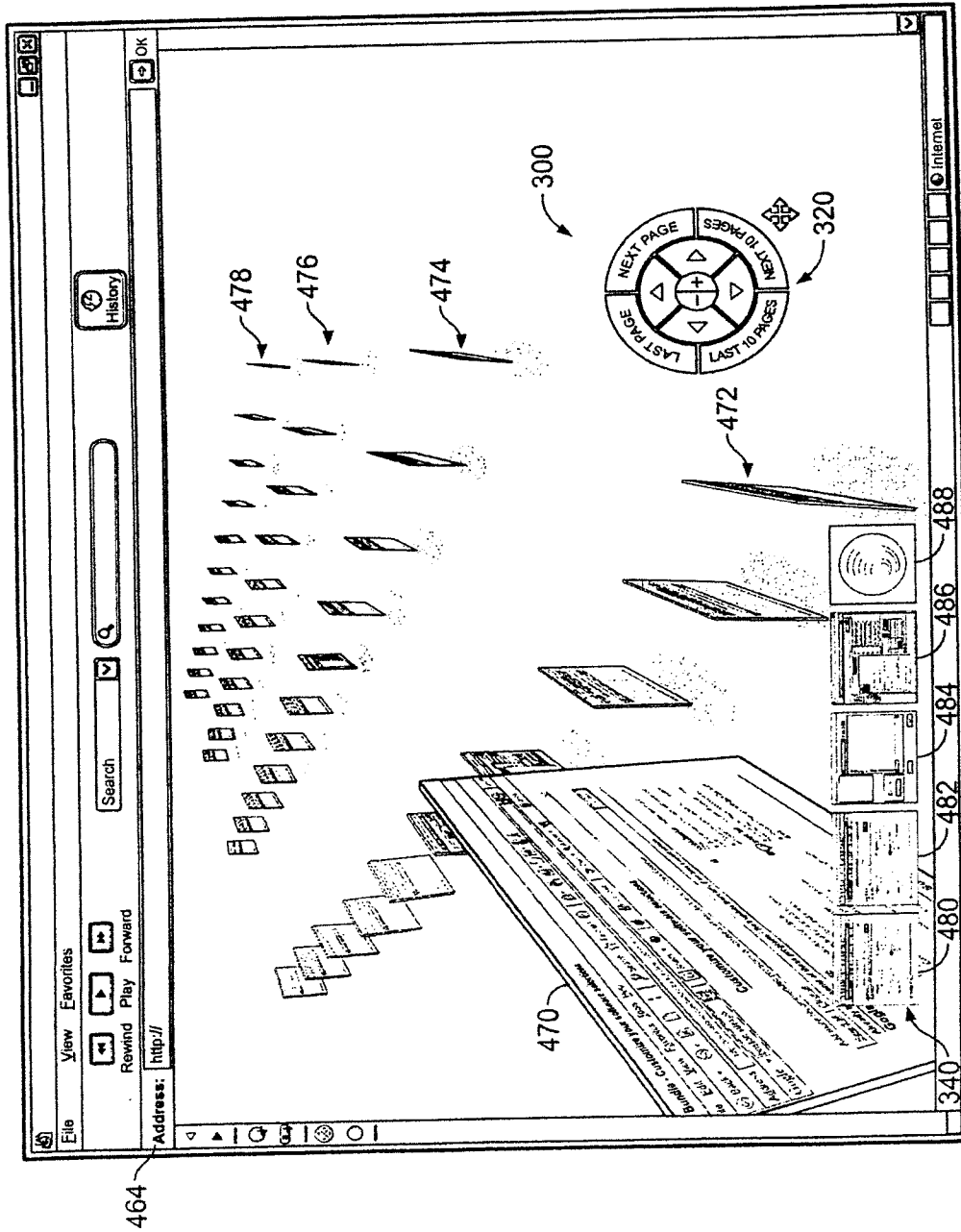


FIG. 12

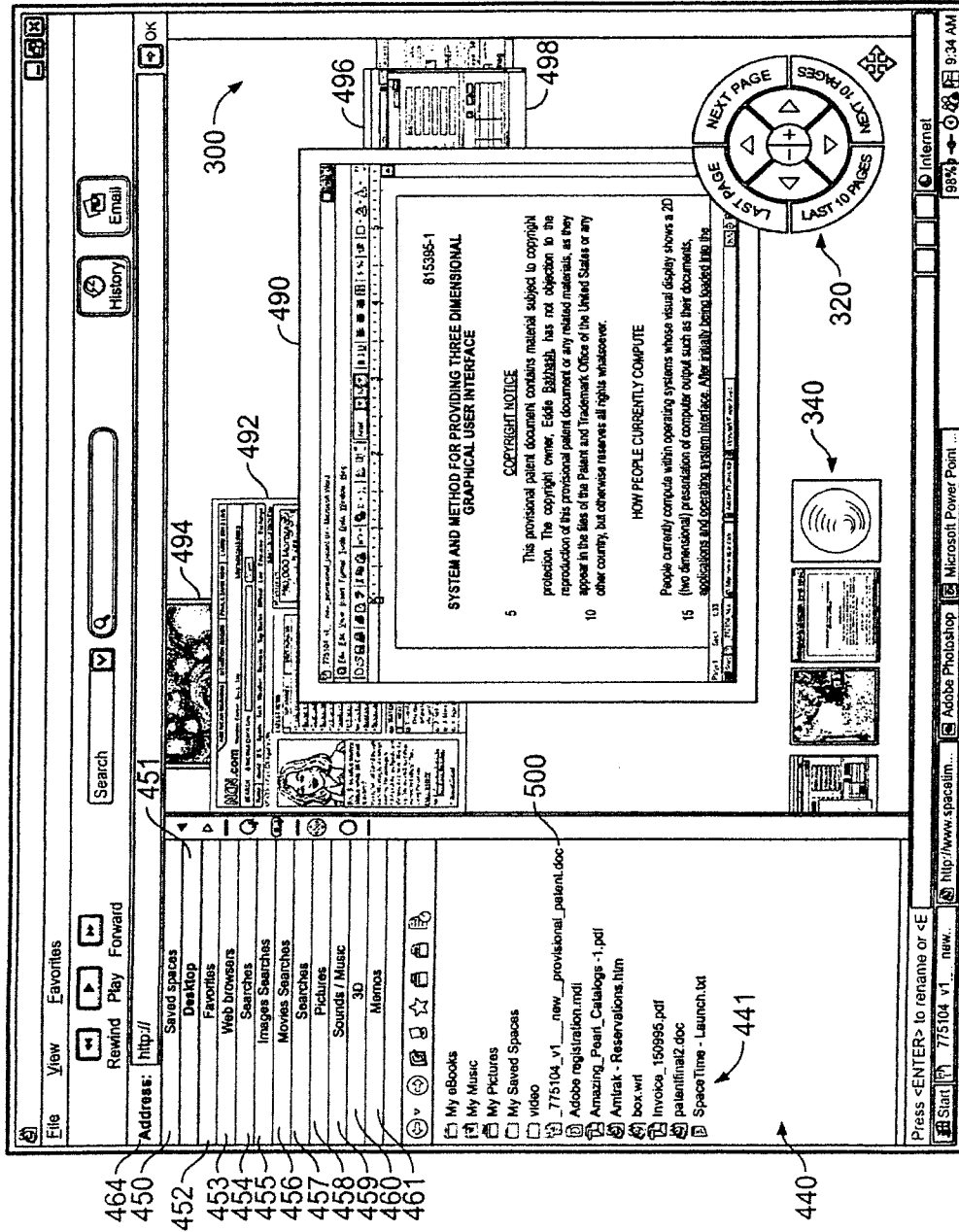


FIG. 13A

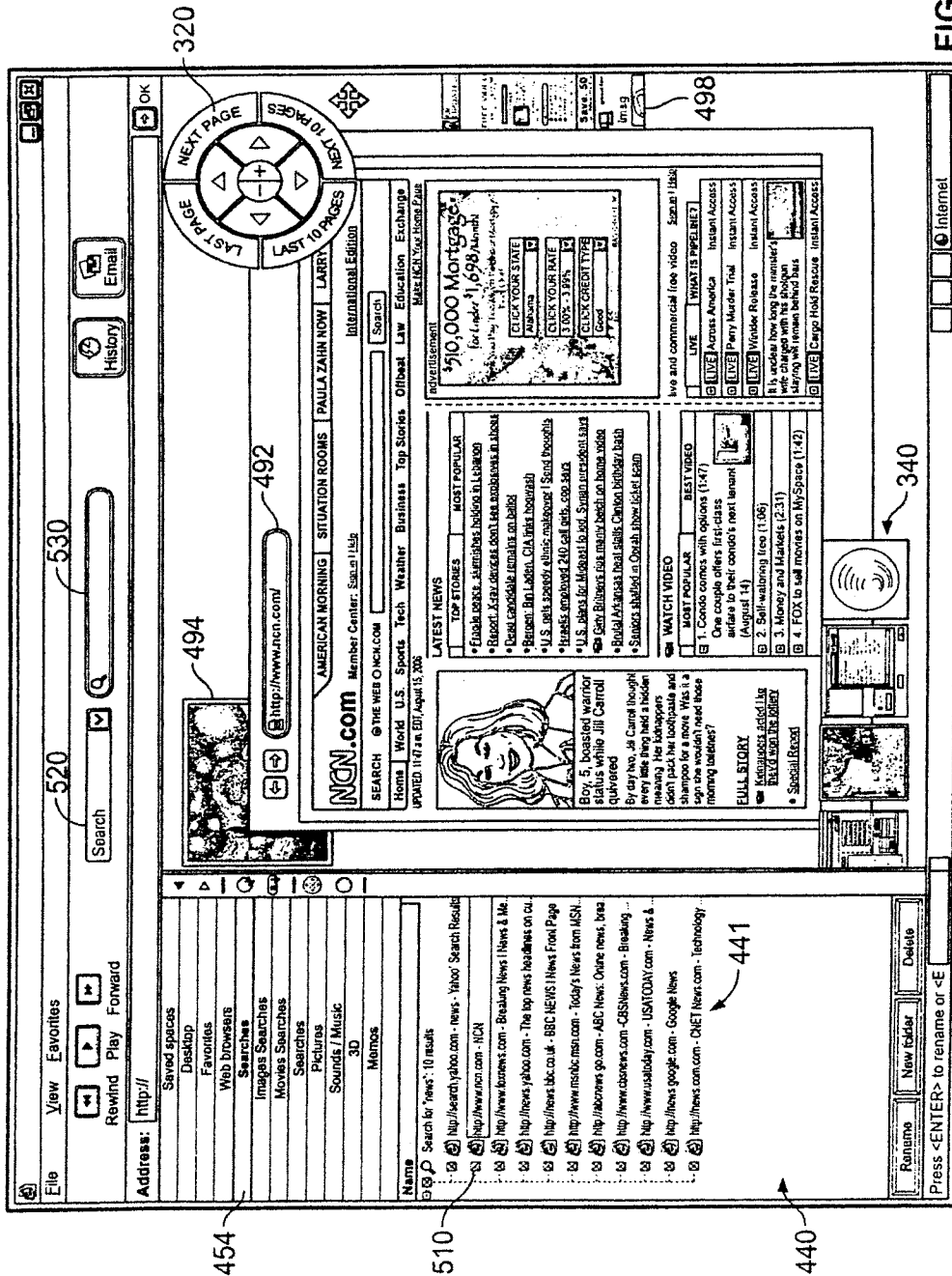
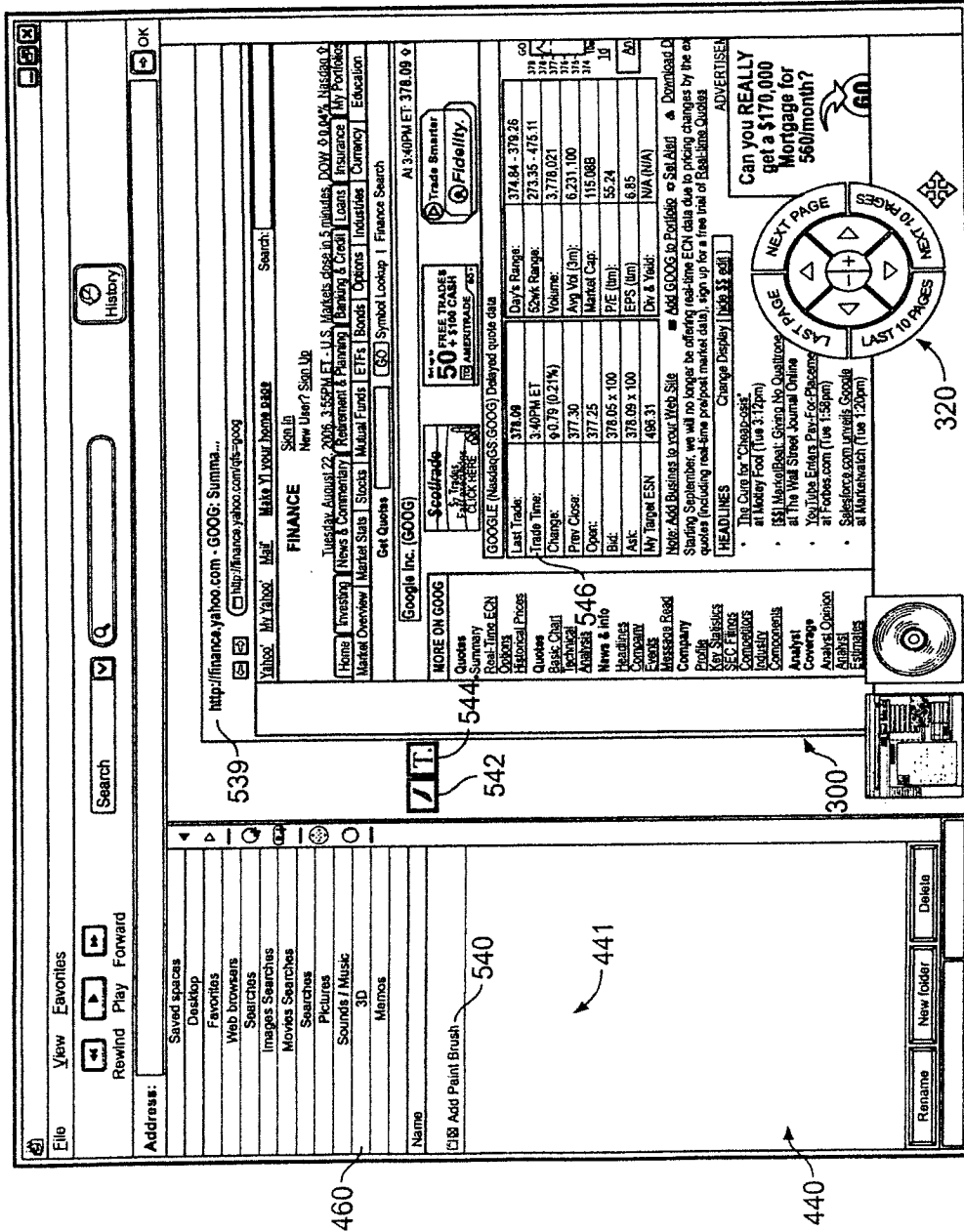


FIG. 14



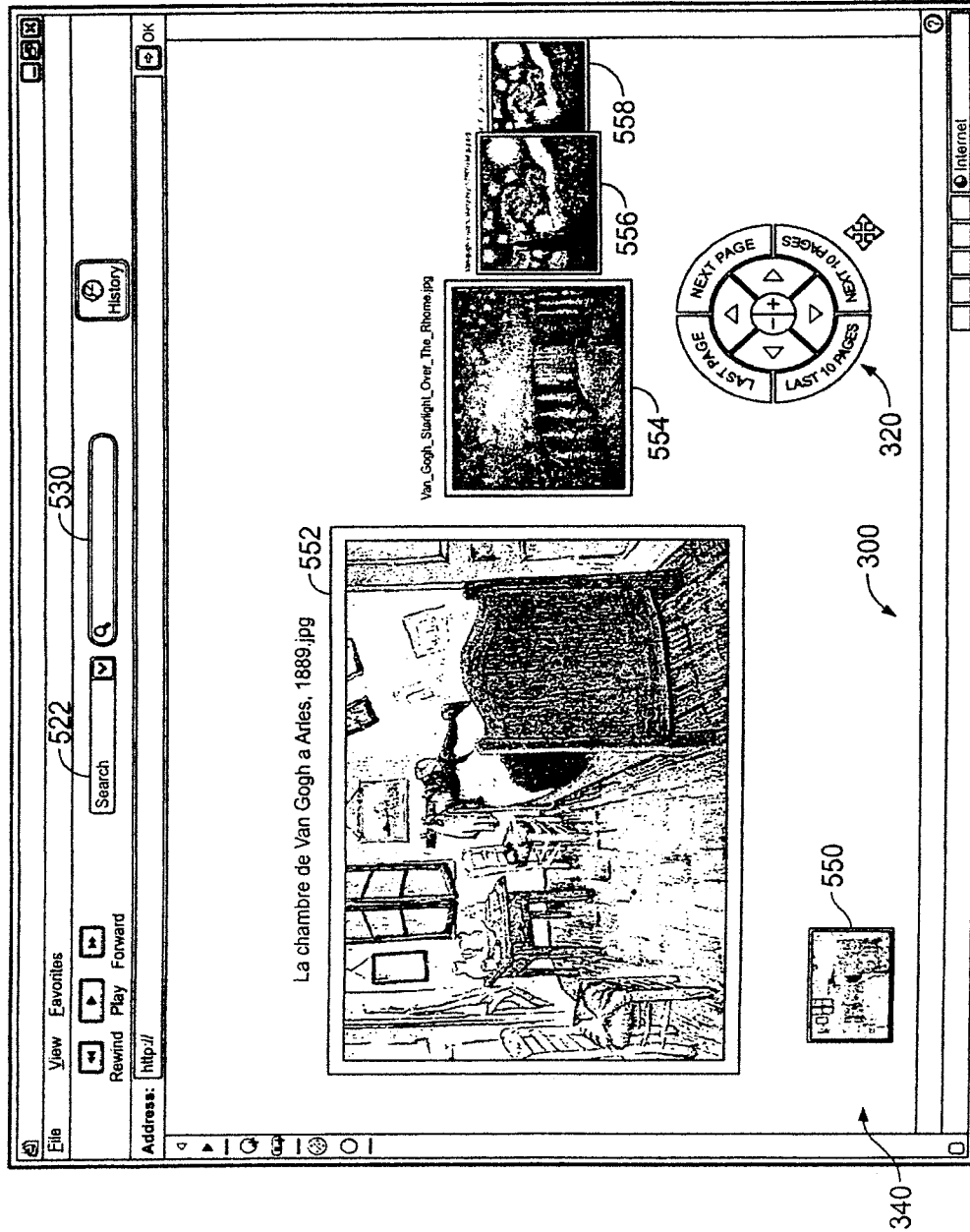
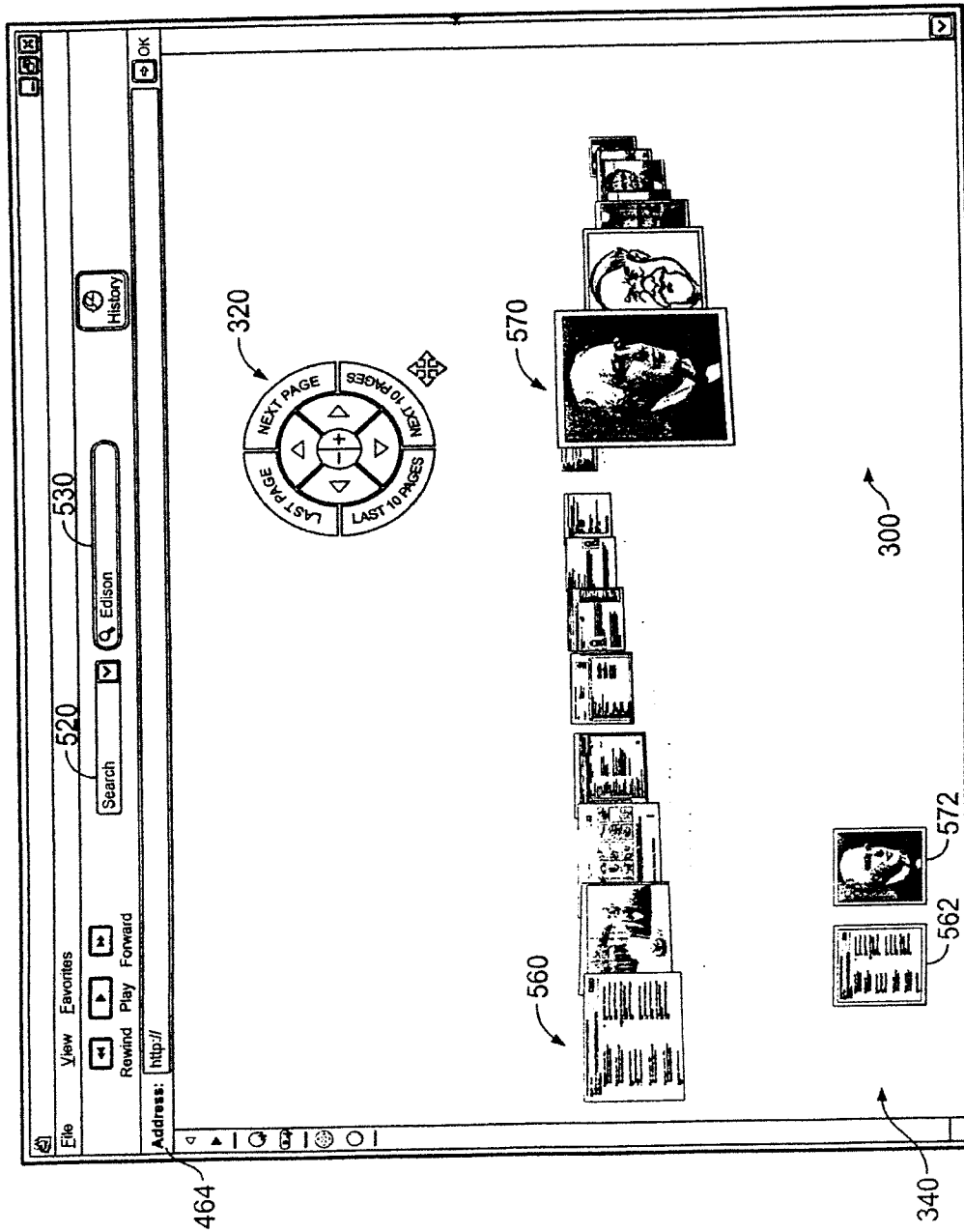


FIG. 15



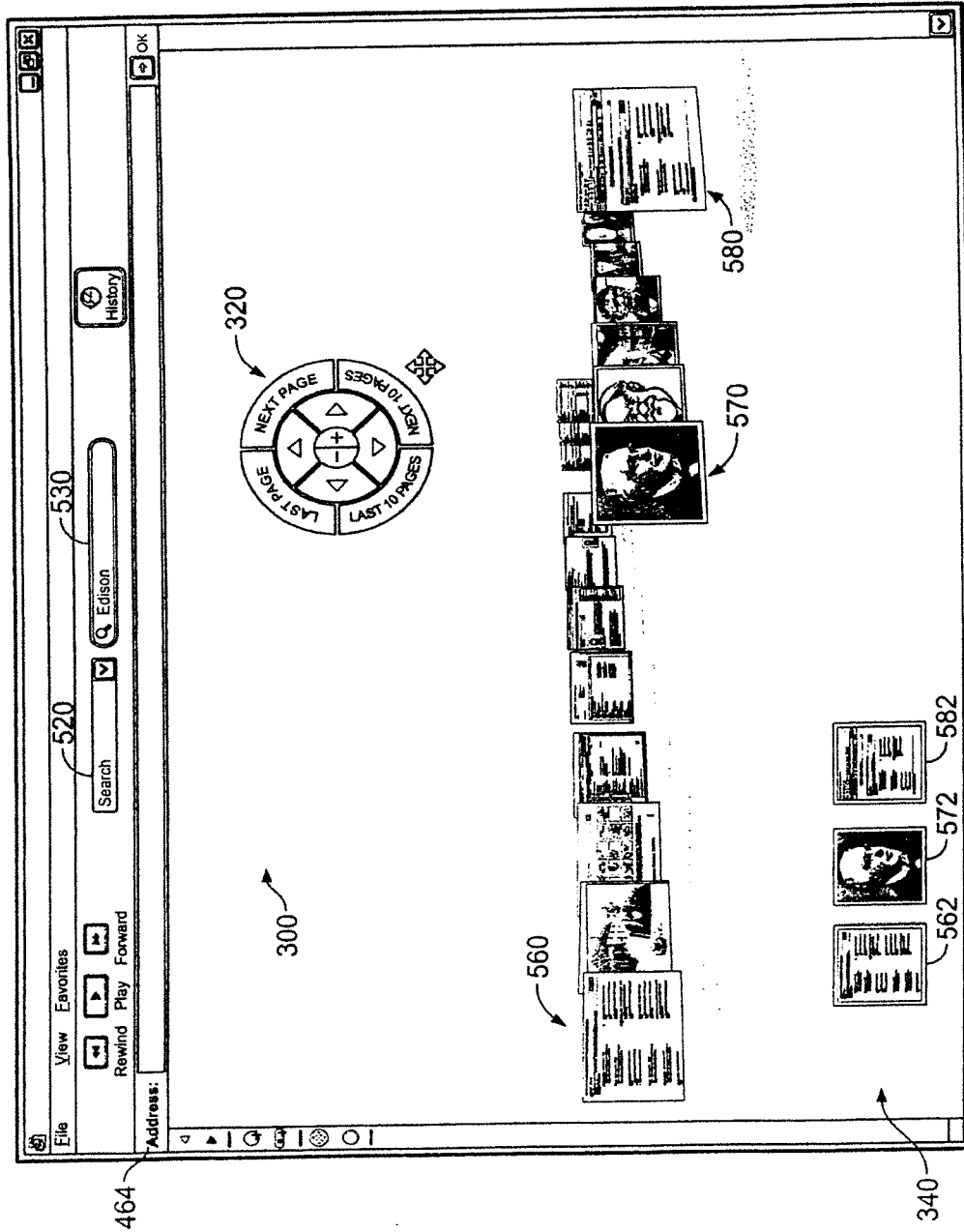


FIG. 16B

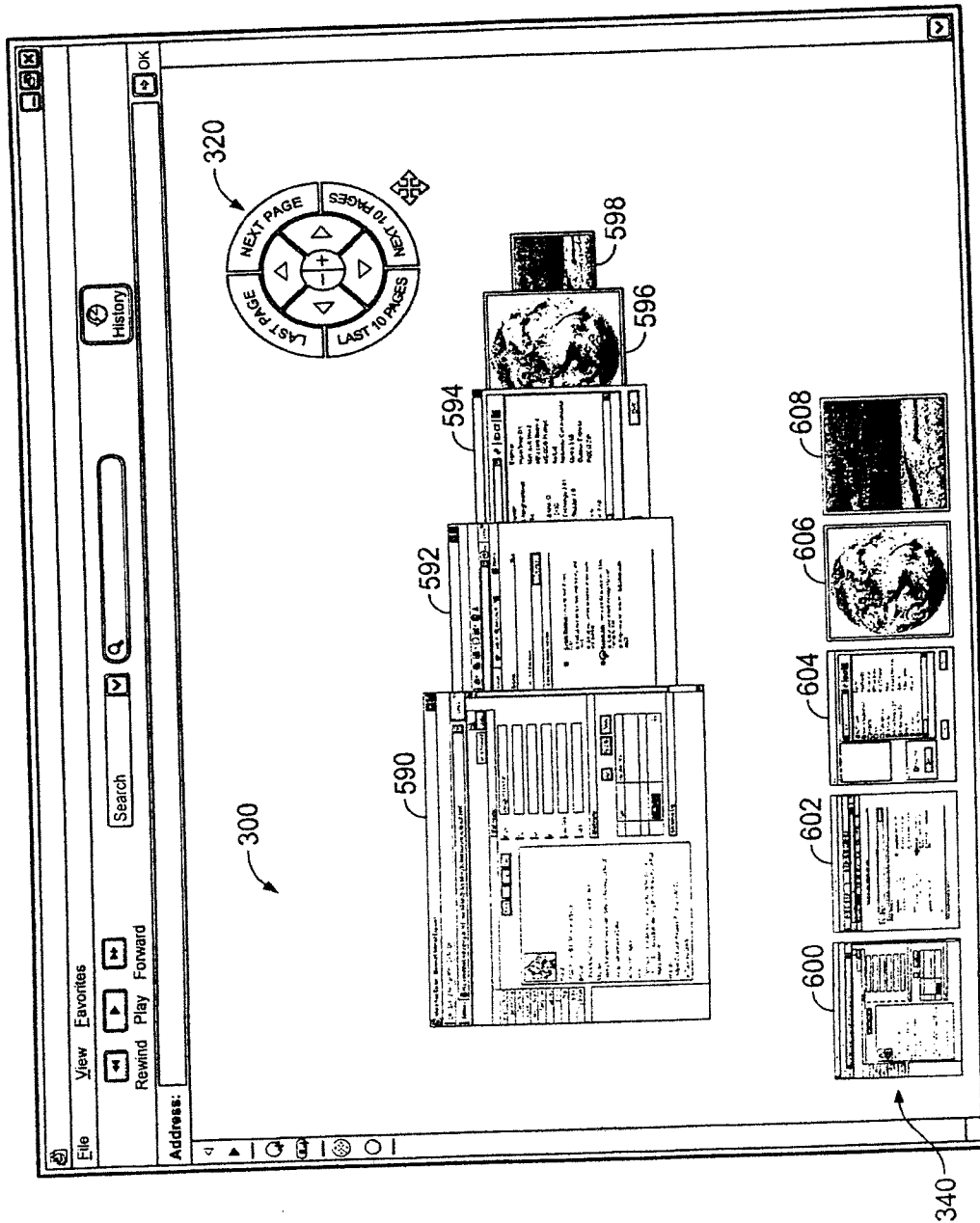


FIG. 17A

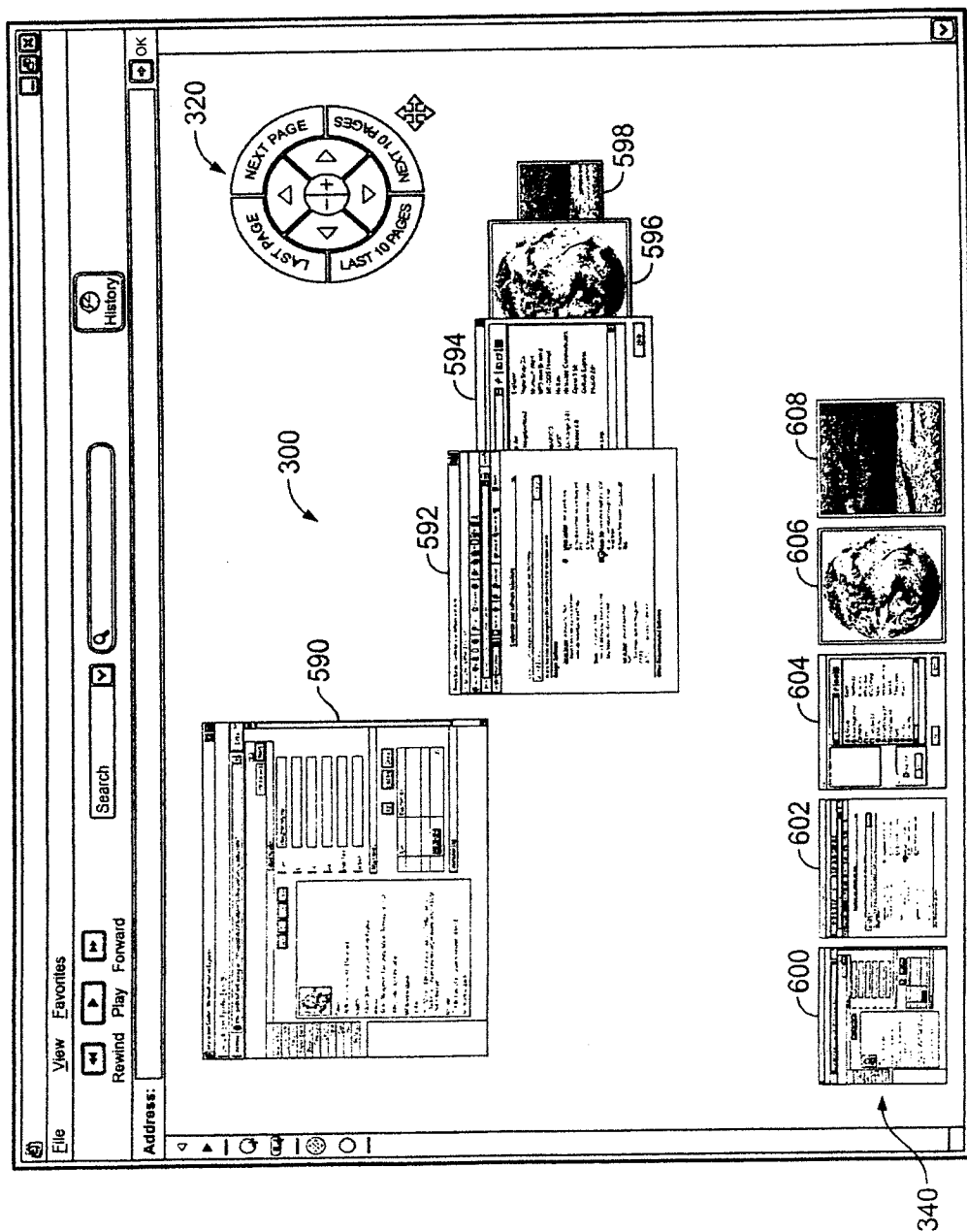


FIG. 17B

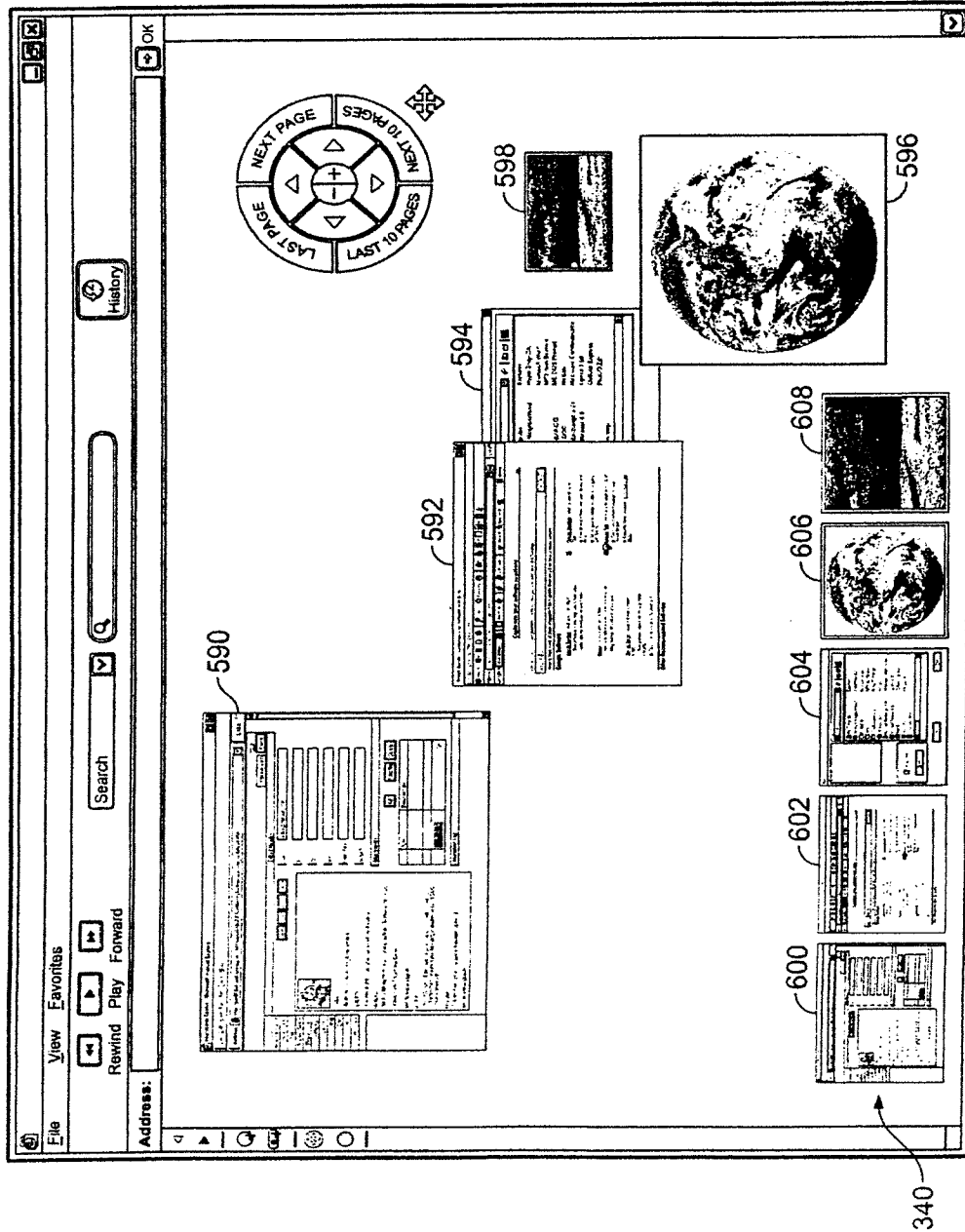


FIG. 17C

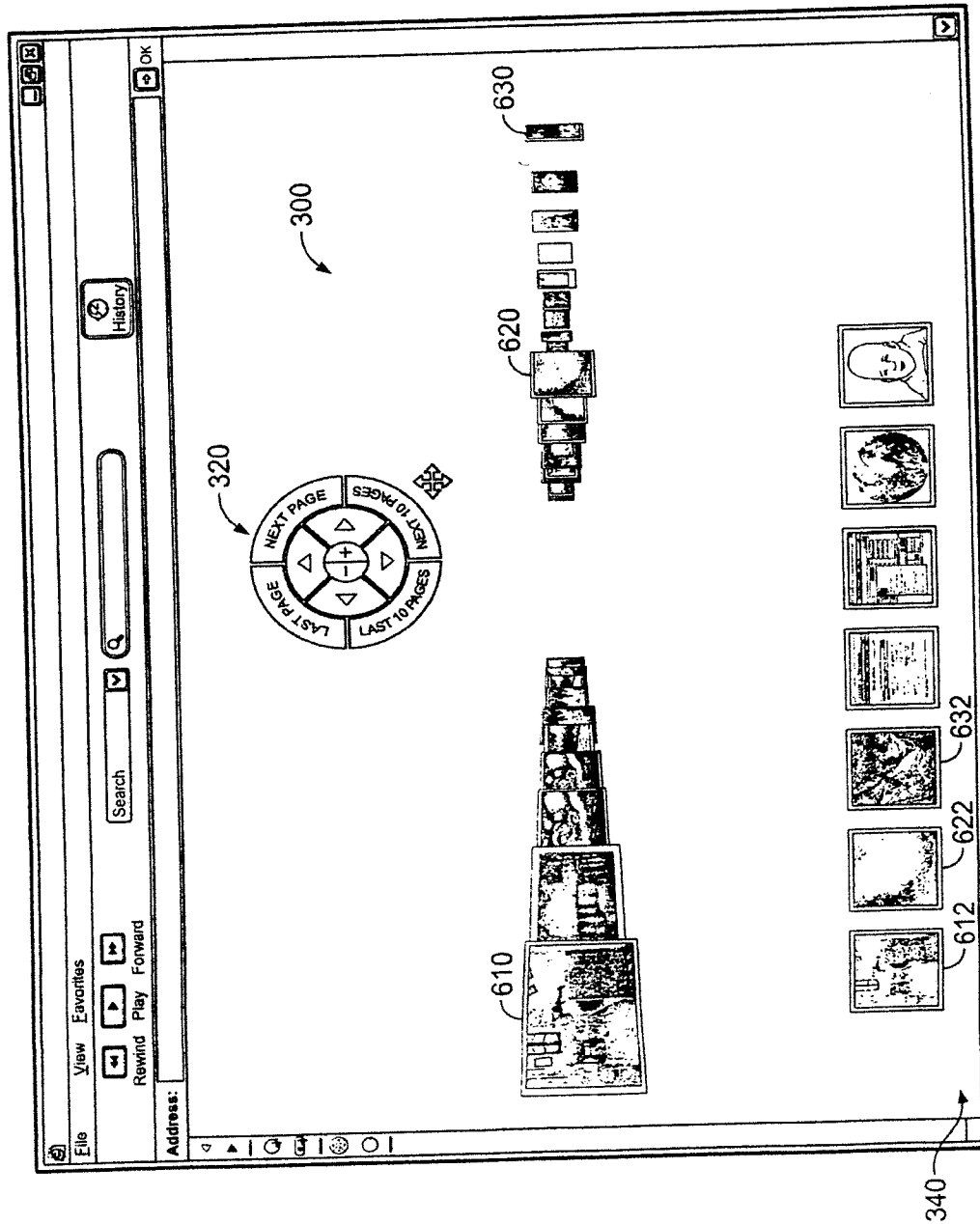


FIG. 18

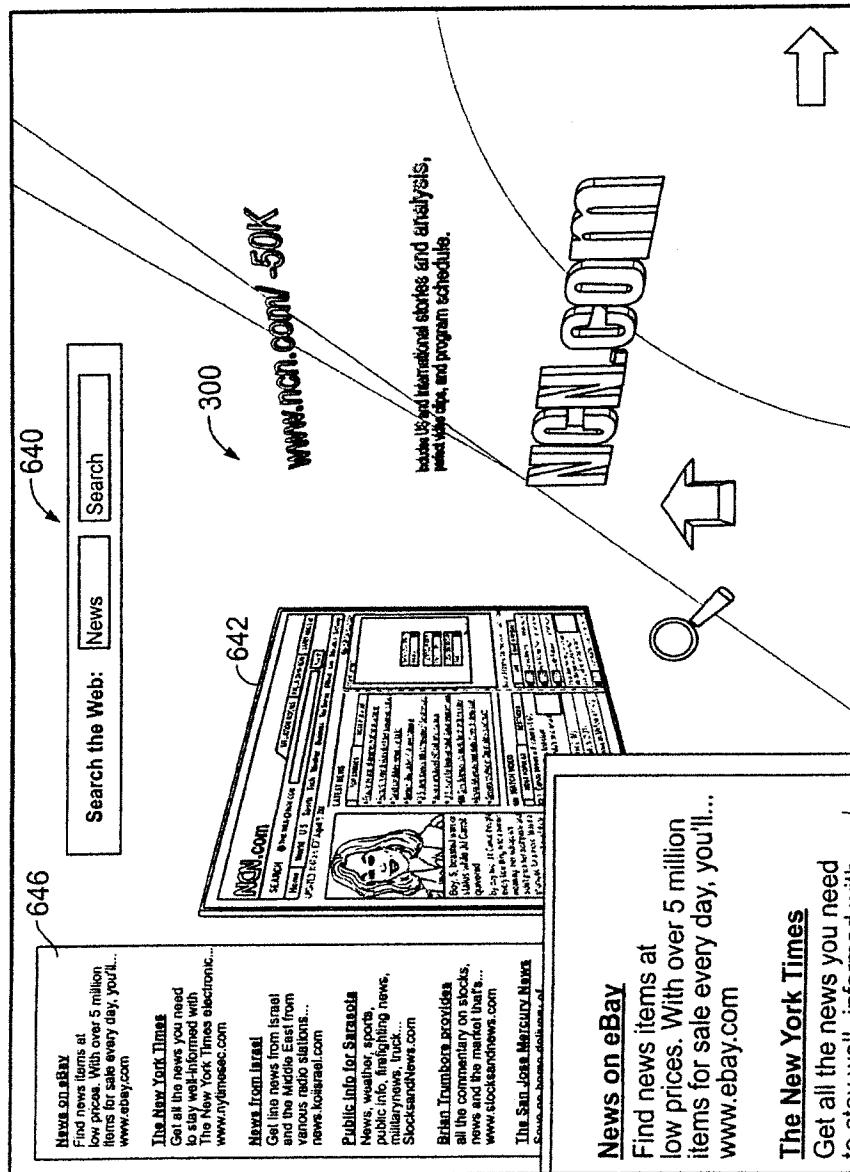


FIG. 19

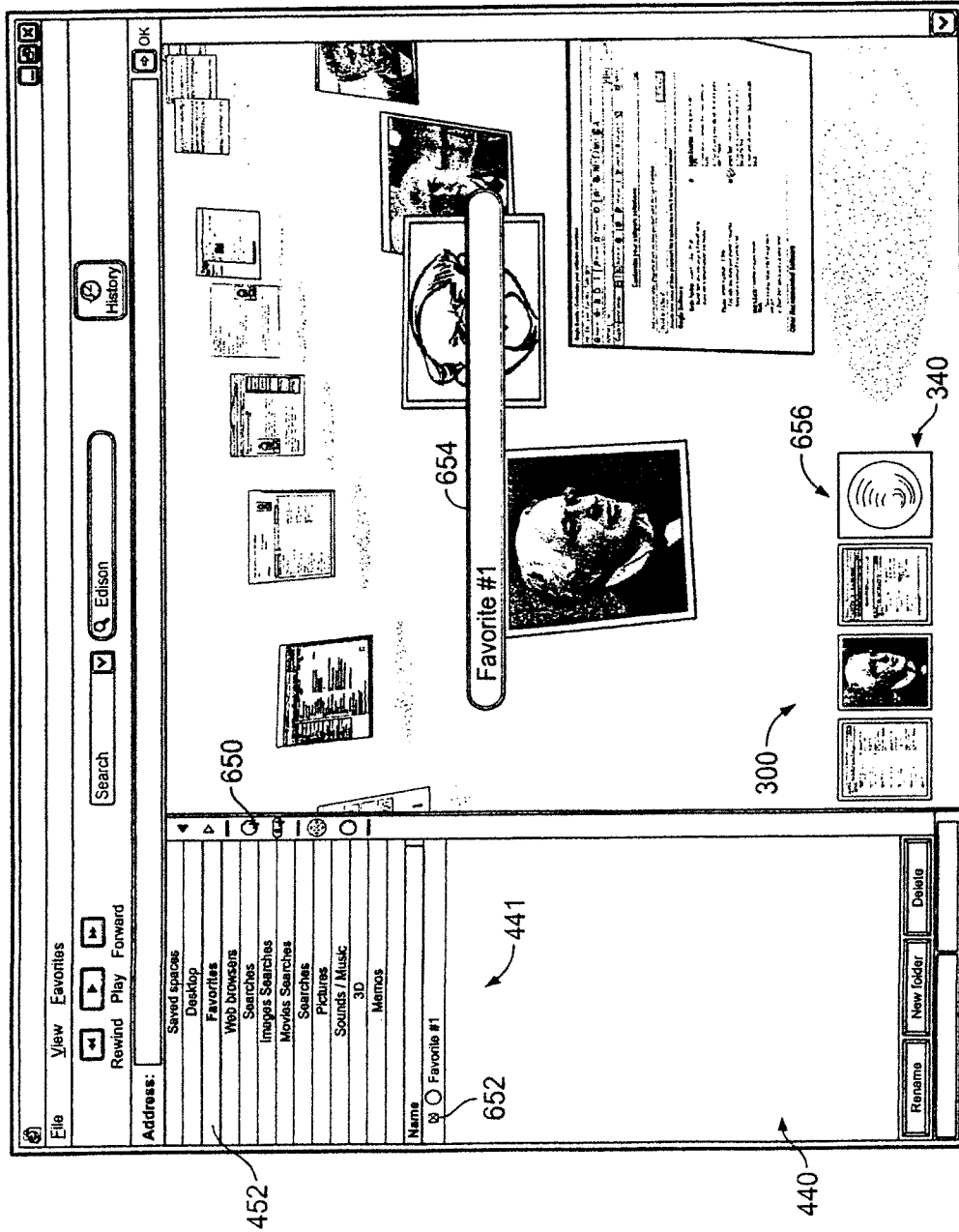


FIG. 20

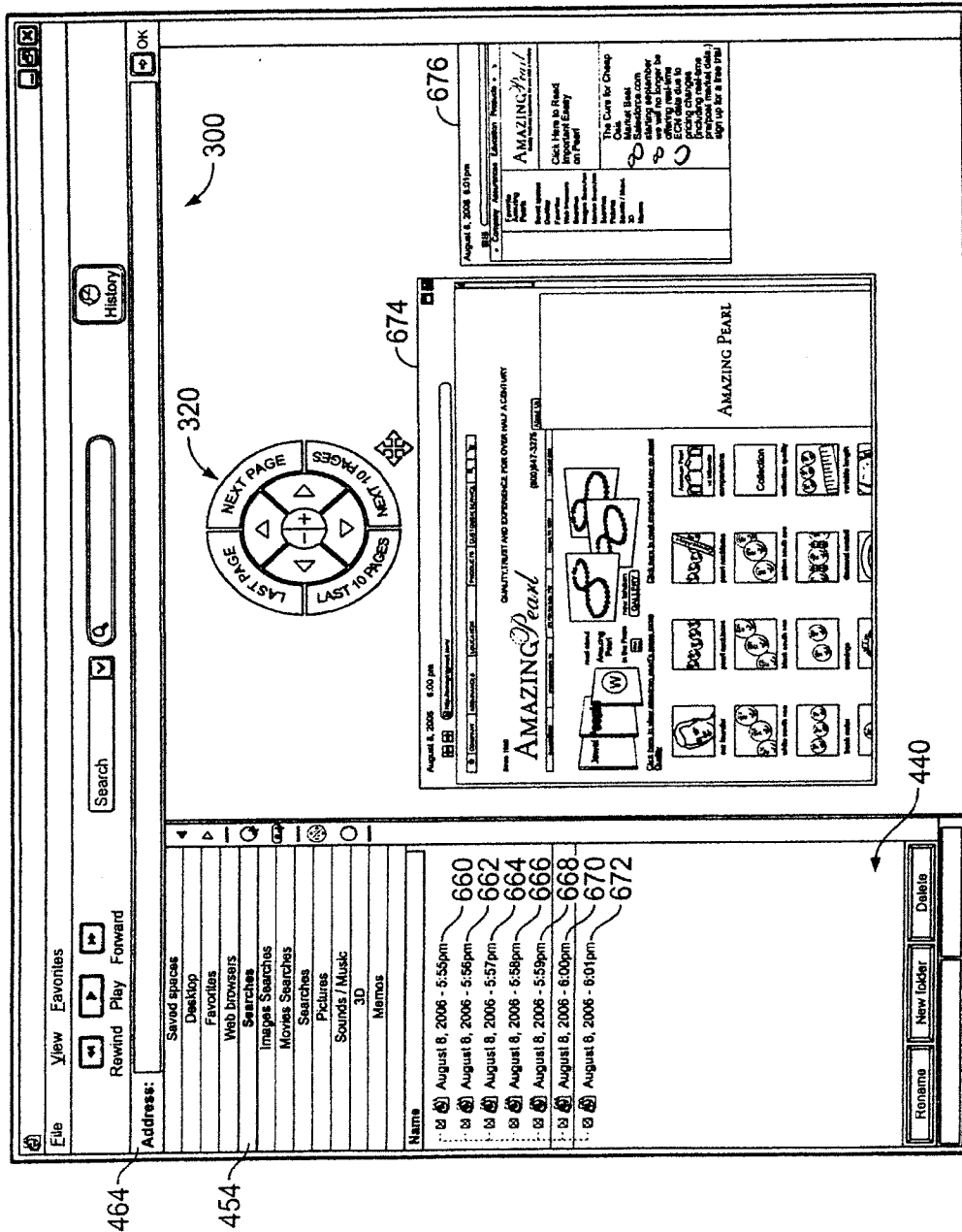


FIG. 21

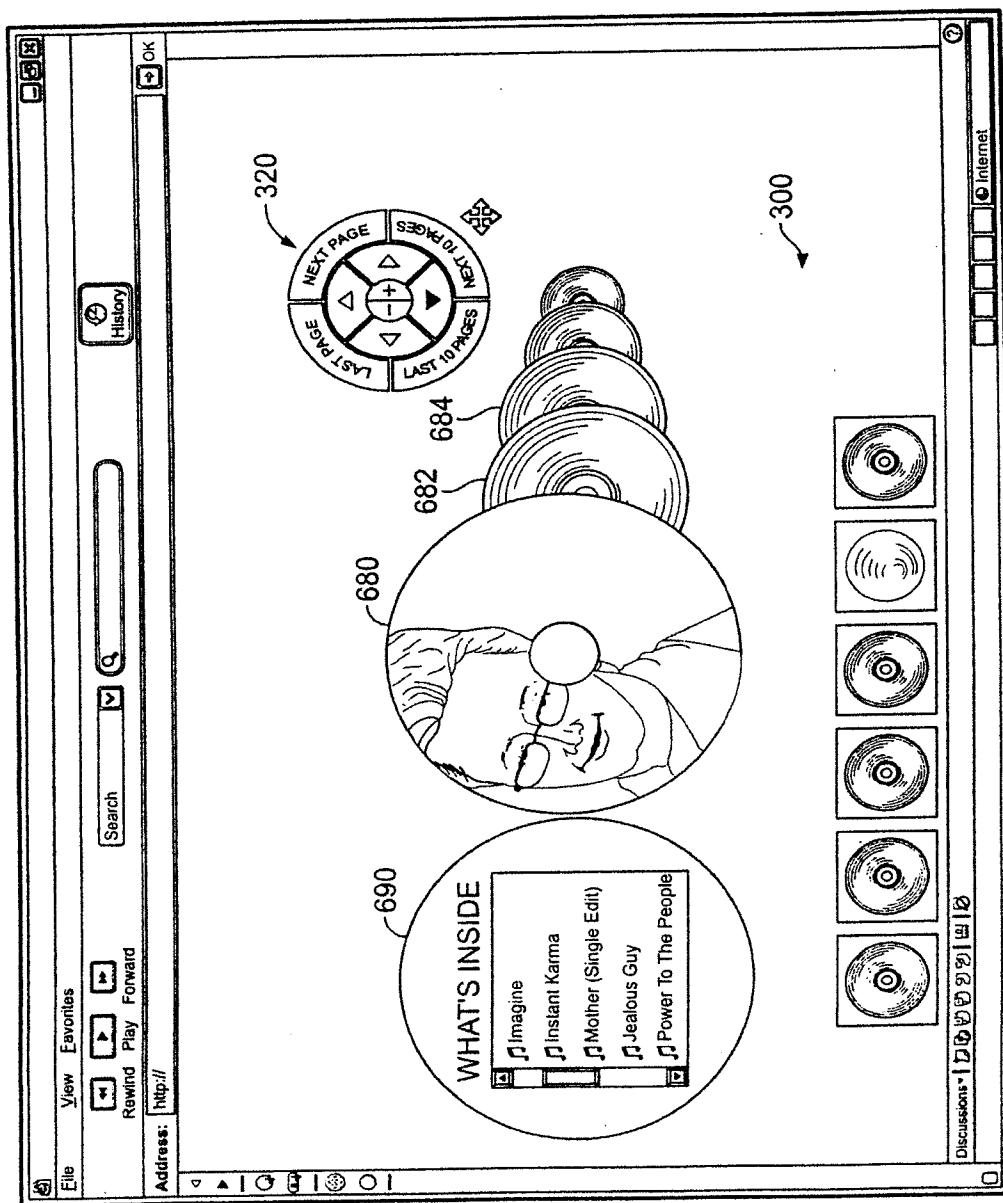


FIG. 22

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.

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	747121-3
		Application Number	14/525,177
Title of Invention	System and Method for Displaying a Timeline Associated With a Plurality of Applications		
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		
Mr.	Ezra	Eddie	Bakhash			
Residence Information (Select One)		☒ US Residency ☐ Non US Residency ☐ Active US Military Service				
City	New York	State/Province	NY	Country of Residence	US	
Mailing Address of Inventor:						
Address 1		2 Columbus Ave., Apt. 32A				
Address 2						
City	New York	State/Province	NY			
Postal Code	10023	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).			
☐ An Address is being provided for the correspondence information of this application.			
Customer Number	125600		
Email Address	todd@fitziplaw.com	Add Email	Remove Email

Application Information:

Title of the Invention	System and Method for Displaying a Timeline Associated With a Plurality of Applications		
Attorney Docket Number	747121-3	Small Entity Status Claimed	☒
Application Type	Nonprovisional		
Subject Matter	Utility		
Total Number of Drawing Sheets (if any)	30	Suggested Figure for Publication (if any)	11

Filing By Reference :

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Application Data Sheet 37 CFR 1.76		Attorney Docket Number	747121-3
		Application Number	14/525,177
Title of Invention	System and Method for Displaying a Timeline Associated With a Plurality of Applications		

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	125600		

Domestic Benefit/National Stage Information:

This section allows for the applicant to either claim benefit under 35 U.S.C. 119(e), 120, 121, or 365(c) or indicate National Stage entry from a PCT application. Providing this 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 blank.

Prior Application Status	Pending	Remove			
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)		
14/503142	Continuation of	12/751879	2010-03-31		
Prior Application Status	Patented	Remove			
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)	Patent Number	Issue Date (YYYY-MM-DD)
12/751879	Continuation of	11/531676	2006-09-13	7735018	2010-06-08
Prior Application Status	Abandoned	Remove			

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.

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	747121-3
		Application Number	14/525,177
Title of Invention	System and Method for Displaying a Timeline Associated With a Plurality of Applications		
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)
11/531676	Claims benefit of provisional	60/717019	2005-09-13
Additional Domestic Benefit/National Stage Data may be generated within this form by selecting the Add button.			

Foreign Priority Information:

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(d). 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(h)(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.

Authorization to Permit Access:

☐ Authorization to Permit Access to the Instant Application by the Participating Offices

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	747121-3
		Application Number	14/525,177
Title of Invention	System and Method for Displaying a Timeline Associated With a Plurality of Applications		

If 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 World Intellectual Property Office (WIPO), and any other intellectual property offices in which a foreign application claiming priority to the instant patent application is filed access to the instant patent application. See 37 CFR 1.14(c) and (h). This box should not be checked if the applicant does not wish the EPO, JPO, KIPO, WIPO, or other intellectual property office in which a foreign application claiming priority to the instant patent application is filed to have access to the instant patent application.

In accordance with 37 CFR 1.14(h)(3), access will be provided to a copy of the instant patent application with respect to: 1) the instant patent application-as-filed; 2) any foreign application to which the instant patent application claims priority under 35 U.S.C. 119(a)-(d) if a copy of the foreign application that satisfies the certified copy requirement of 37 CFR 1.55 has been filed in the instant patent application; and 3) any U.S. application-as-filed from which benefit is sought in the instant patent application.

In accordance with 37 CFR 1.14(c), access may be provided to information concerning the date of filing this Authorization.

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. ☐				
Prefix	Given Name	Middle Name	Family Name	Suffix

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.

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	747121-3
		Application Number	14/525,177
Title of Invention	System and Method for Displaying a Timeline Associated With a Plurality of Applications		

Mailing Address Information For Applicant:			
Address 1			
Address 2			
City		State/Province	
Country		Postal Code	
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:

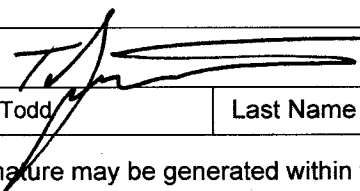
Providing assignment information in this section does not substitute for compliance with any requirement of part 3 of Title 37 of CFR to have an assignment recorded by the Office.

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:				
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Address 2				
City		State/Province		
Country		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.				

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.

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	747121-3
		Application Number	14/525,177
Title of Invention	System and Method for Displaying a Timeline Associated With a Plurality of Applications		

Signature:

NOTE: This form must be signed in accordance with 37 CFR 1.33. See 37 CFR 1.4 for signature requirements and certifications.					
Signature			Date (YYYY-MM-DD)	2014-11-03	
First Name	Todd	Last Name	Fitzsimmons	Registration Number	44683
Additional Signature may be generated within this form by selecting the Add button.					

This collection of information is required by 37 CFR 1.76. 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 23 minutes to complete, including gathering, preparing, and submitting the completed application data sheet 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.**

Electronic Patent Application Fee Transmittal

Application Number:	14503142			
Filing Date:	30-Sep-2014			
Title of Invention:	System and Method for Displaying a Timeline Associated With a Plurality of Applications			
First Named Inventor/Applicant Name:	E. Eddie Bakhsh			
Filer:	Todd E. Fitzsimmons			
Attorney Docket Number:	747121-3			
Filed as Small Entity				
Utility under 35 USC 111(a) Filing Fees				
Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Late Filing Fee for Oath or Declaration	2051	1	70	70
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Miscellaneous:				
Total in USD (\$)				70

Electronic Acknowledgement Receipt

EFS ID:	20595320
Application Number:	14503142
International Application Number:	
Confirmation Number:	5089
Title of Invention:	System and Method for Displaying a Timeline Associated With a Plurality of Applications
First Named Inventor/Applicant Name:	E. Eddie Bakhash
Customer Number:	125600
Filer:	Todd E. Fitzsimmons
Filer Authorized By:	
Attorney Docket Number:	747121-3
Receipt Date:	03-NOV-2014
Filing Date:	30-SEP-2014
Time Stamp:	19:29:50
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	Deposit Account
Payment was successfully received in RAM	\$70
RAM confirmation Number	6029
Deposit Account	506455
Authorized User	

The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:

Charge any Additional Fees required under 37 C.F.R. Section 1.16 (National application filing, search, and examination fees)

Charge any Additional Fees required under 37 C.F.R. Section 1.17 (Patent application and reexamination processing fees)

Charge any Additional Fees required under 37 C.F.R. Section 1.19 (Document supply fees)

Charge any Additional Fees required under 37 C.F.R. Section 1.20 (Post Issuance fees)

Charge any Additional Fees required under 37 C.F.R. Section 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 Letter	Transmittal_Filed.pdf	34233	no	1
			17127308d99da8ae1777996f741493c104aefc04		

Warnings:

Information:

2	Oath or Declaration filed	Revised_Declaration_Filed.pdf	67176	no	1
			c467a85d6b3c32f8408fd399af0abf11d11cadd		

Warnings:

Information:

3		Patent_Application_Filed.pdf	3938330	yes	71
			f91fdb9a46eb1c7c50418b71927681e6b0c4473a		

Multipart Description/PDF files in .zip description

	Document Description	Start	End
	Specification	1	56
	Claims	57	70
	Abstract	71	71

Warnings:

Information:

4	Drawings-only black and white line drawings	Drawings_Filed.pdf	1280493	no	30
			88092360c9045a768eb1318cbe12c99ec79ae75		

Warnings:

Information:

5	Application Data Sheet	Revised_Application_Data_Sheet.pdf	334190	no	6
			98a7a93836db0f7c53c0cfe909868c03b6d65c9		

Warnings:

Information:

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6	Fee Worksheet (SB06)	fee-info.pdf	29655	no	2
			c7d409f51e2ecf1eb75a872fd23aebc27bc7be26		

Warnings:	
Information:	
Total Files Size (in bytes):	5684077
This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503. <u>New Applications Under 35 U.S.C. 111</u> If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application. <u>National Stage of an International Application under 35 U.S.C. 371</u> If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course. <u>New International Application Filed with the USPTO as a Receiving Office</u> If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.	



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APPLICATION NUMBER	FILING or 371(c) DATE	GRP ART UNIT	FIL FEE REC'D	ATTY. DOCKET NO	TOT CLAIMS	IND CLAIMS
14/503,142	09/30/2014	2688	730	747121-3	20	3

CONFIRMATION NO. 5089

125600
Fitzsimmons IP Law
14739 S. Vermont Ave.
Gardena, CA 90247

FILING RECEIPT



OC000000071503442

Date Mailed: 10/23/2014

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)

E. Eddie Bakhash, New York, NY;

Applicant(s)

E. Eddie Bakhash, New York, NY;

Power of Attorney: None

Domestic Priority data as claimed by applicant

This application is a CON of 12/751,879 03/31/2010 PAT 8881048

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.

If Required, Foreign Filing License Granted: 10/06/2014

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 14/503,142**

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

Non-Publication Request: No

Early Publication Request: No

**** SMALL ENTITY ****

Title

System and Method for Displaying a Timeline Associated With a Plurality of Applications

Preliminary Class

360

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

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Title 37, Code of Federal Regulations, 5.11 & 5.15

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APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
14/503,142	09/30/2014	E. Eddie Bakhsh	747121-3

CONFIRMATION NO. 5089

FORMALITIES LETTER



125600
Fitzsimmons IP Law
14739 S. Vermont Ave.
Gardena, CA 90247

Date Mailed: 10/23/2014

NOTICE TO FILE MISSING PARTS OF NONPROVISIONAL APPLICATION

FILED UNDER 37 CFR 1.53(b)

Filing Date Granted

Items Required To Avoid Abandonment:

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

- The application data sheet or inventor's oath or declaration does not identify each inventor by his or her legal name.
E. Eddie Bakhsh
- This application was filed by reference to a previously filed application in accordance with 37 CFR 1.57(a). Applicant must submit a copy of the specification and drawings from the previously filed application, an English translation of the previously filed application and the fee required by 37 CFR 1.17(i) if it is in a language other than English, and the surcharge required by 37 CFR 1.16(f) to avoid abandonment. If the copy of the specification does not include at least one claim, then applicant must also submit at least one claim. If more than 3 independent claims, more than 20 total claims, and/or a multiple dependent claim are submitted, excess claims fees are required at the time of submission of such claims (see 37 CFR 1.16(h)-(j)). In addition, a certified copy of the previously filed application must be filed in the Office unless the previously filed application is an application filed under 35 U.S.C. 111 or 363, or the previously filed application is a foreign priority application and the conditions set forth in 37 CFR 1.55(h) are satisfied with respect to such foreign priority application. If a certified copy is required, it must be filed within the later of four months from the filing date of the application or sixteen months from the filing date of the previously filed application (unless it is accompanied by a petition including a showing of good and sufficient cause for the delay and the petition fee set forth in 37 CFR 1.17(g)).
- Surcharge as set forth in 37 CFR 1.16(f) must be submitted.
The surcharge is due for any one of:
 - late submission of the basic filing fee, search fee, or examination fee,
 - late submission of inventor's oath or declaration,
 - filing an application that does not contain at least one claim on filing, or
 - submission of an application filed by reference to a previously filed application.

SUMMARY OF FEES DUE:

The fee(s) required within **TWO MONTHS** from the date of this Notice to avoid abandonment is/are itemized below. Small entity discount is in effect. If applicant is qualified for micro entity status, an acceptable Certification of Micro Entity Status must be submitted to establish micro entity status. (See 37 CFR 1.29 and forms PTO/SB/15A and 15B.)

- \$ **70** surcharge.
- \$(**0**) previous unapplied payment amount.
- \$ **70** TOTAL FEE BALANCE DUE.

Replies must be received in the USPTO within the set time period or must include a proper Certificate of Mailing or Transmission under 37 CFR 1.8 with a mailing or transmission date within the set time period. For more information and a suggested format, see Form PTO/SB/92 and MPEP 512.

Replies should be mailed to:

Mail Stop Missing Parts
Commissioner for Patents
P.O. Box 1450
Alexandria VA 22313-1450

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/elbanaybanay/

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

PATENT APPLICATION FEE DETERMINATION RECORD

Substitute for Form PTO-875

Application or Docket Number
14/503,142

APPLICATION AS FILED - PART I

(Column 1)		(Column 2)	SMALL ENTITY		OR	OTHER THAN SMALL ENTITY	
FOR	NUMBER FILED	NUMBER EXTRA	RATE(\$)	FEE(\$)		RATE(\$)	FEE(\$)
BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A	N/A	70		N/A	
SEARCH FEE (37 CFR 1.16(k), (l), or (m))	N/A	N/A	N/A	300		N/A	
EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A	N/A	360		N/A	
TOTAL CLAIMS (37 CFR 1.16(j))	20 minus 20 =	*	x 40 =	0.00	OR		
INDEPENDENT CLAIMS (37 CFR 1.16(h))	3 minus 3 =	*	x 210 =	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			
			TOTAL	730		TOTAL	

* If the difference in column 1 is less than zero, enter "0" in column 2.

APPLICATION AS AMENDED - PART II

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

(Column 1)		(Column 2)	(Column 3)	SMALL ENTITY		OR	OTHER THAN SMALL ENTITY	
AMENDMENT B	CLAIMS REMAINING AFTER AMENDMENT	HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE(\$)	ADDITIONAL FEE(\$)		RATE(\$)	ADDITIONAL FEE(\$)
Total (37 CFR 1.16(i))	*	Minus	**	=		OR	x	=
Independent (37 CFR 1.16(h))	*	Minus	***	=		OR	x	=
Application Size Fee (37 CFR 1.16(s))						OR		
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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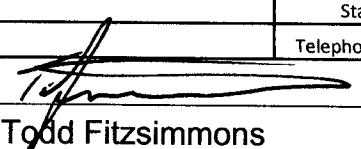
UTILITY PATENT APPLICATION TRANSMITTAL <i>(Only for new nonprovisional applications under 37 CFR 1.53(b))</i>	Attorney Docket No.	747121-3
	First Named Inventor	Bakhash, E. Eddie
	Title	System and Method for Displaying a Timeline ...
	Express Mail Label No.	

APPLICATION ELEMENTS <i>See MPEP chapter 600 concerning utility patent application contents.</i>	ADDRESS TO: Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450
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 _____] 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 _____] 6. Inventor's Oath or Declaration [Total Pages <u>1</u>] (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	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: 125600 **OR** ☐ Correspondence address below

Name					
Address					
City	State	Zip Code			
Country	Telephone	Email			
Signature				Date	9/30/2014
Name (Print/Type)	Todd Fitzsimmons			Registration No. (Attorney/Agent)	44,683

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.**

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PATENT
747121-3

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: E. EDDIE BAKHASH

Serial No.: Not Yet Assigned

Filed: 9/30/2014

Title: SYSTEM AND METHOD FOR
DISPLAYING A TIMELINE ASSOCIATED
WITH A PLURALITY OF APPLICATIONS

Art Unit: N/A

Examiner: N/A

Confirmation No.: N/A

PRELIMINARY AMENDMENT

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

Sir:

In connection with the above-identified application, and prior to examination,
please amend the above-identified application as follows:

Serial No. Not Yet Assigned
September 30, 2014
Page 2

IN THE TITLE:

Please replace the title of the application with the following rewritten title:

System and Method for ~~Providing Three Dimensional Graphical User Interface~~
Displaying a Timeline Associated With a Plurality of Applications

IN THE SPECIFICATION:

Please amend the Cross-Reference to Related Application section, which begins on page 1, line 5, with the following rewritten section:

Cross-Reference to Related Application

This application is a continuation of U.S. Patent Application Number 12/751,879, filed March 31, 2010, which is a continuation of U.S. Patent Application Number 11/531,676, filed September 13, 2006, now U.S. Patent Number 7,735,018, which claims priority pursuant to 35 U.S.C. § 119(e) to U.S. Provisional Application Number 60/717,019, filed September 13, 2005, which application is specifically incorporated herein, in its entirety by reference.

IN THE CLAIMS:

The following listing of claims will replace all prior versions, and listings, of the claims in the application:

1-66. (Cancelled)

67. (New) A method for displaying a timeline associated with a plurality of applications and allowing a user to modify an output of one of said plurality of applications by interacting with said timeline, comprising:

receiving a plurality of inputs from a user, said plurality of inputs comprising at least first, second, and third inputs;

opening said plurality of applications in response to said plurality of inputs, said plurality of applications comprising at least first, second, and third applications, wherein each one of said plurality of applications is configured to (i) generate an object having application-specific data, (ii) display said object on a display device, and (iii) allow said user to modify at least a portion of said application-specific data by interacting with said object; and

displaying on said display device said timeline associated with said plurality of applications, comprising;

generating a plurality of images, said plurality of images comprising at least first, second, and third images, wherein said first image is an image of at least a portion of a first object generated by said first application and having first application-specific data, said second image is an image of at least a portion of a second object generated by said second application and having second application-specific data, and said third image is an image of at least a portion of a third object generated by said third application and having third-application data; and

displaying said plurality of images on said display device in an order based on a last time that said user one of (i) opened said first application and interacted with said first object, (ii) opened said second application and interacted with said second object, and (iii) opened said third application and interacted with said third object; and allowing said user to modify at least a portion of one of said first, second, and third application-specific data, comprising:

receiving a first interaction from said user with one of said plurality of images corresponding to one of said plurality of applications;

replacing said plurality of images with one of said first, second, and third objects corresponding to said one of said plurality of applications in response to said first interaction;

receiving a second interaction by said user with said one of said first, second, and third objects; and

modifying said one of said first, second, and third application-specific data in response to said second interaction.

68. (New) The method of Claim 67, wherein said step of displaying said plurality of images on said display device further comprises displaying said plurality of images together with a plurality of icons, wherein each one of said plurality of images has a corresponding one of said plurality of icons.

69. (New) The method of Claim 67, wherein said step of displaying said plurality of images on said display device further comprises displaying said plurality of images together with a plurality of descriptions, wherein each one of said plurality of images has a corresponding one of said plurality of descriptions.

70. (New) The method of Claim 67, further comprising the step of storing in a database data linking each one of said plurality of images with a corresponding one of said plurality of applications and a corresponding one of said order in which said plurality of images are displayed on said display device.

71. (New) The method of Claim 67, wherein said step of displaying said plurality of images further comprises displaying said plurality of images one of horizontally and vertically on said display device.

72. (New) The method of Claim 67, further comprising the steps of:
displaying a fourth image on said display device, said fourth image being an image of a desktop having at least one other application; and
allowing said user to open said other application, comprising:
receiving a third interaction from said user with said fourth image;
replacing said fourth image with said desktop in response to said third interaction;
receiving a fourth interaction from said user with said other application; and
opening said other application in response to said fourth interaction.

73. (New) The method of Claim 67, further comprising the steps of:
receiving a third interaction from said user on said display device; and
reordering said order in which said plurality of images are displayed on said display device in response to said third interaction.

74. (New) The method of Claim 67, wherein said step of displaying said plurality of images further comprises displaying said plurality of images in a three-dimensional space, such that a first one of said plurality of images is displayed in a foreground of said display device and said second and third ones of said plurality of images is displayed in a background of said display device.

75. (New) The method of Claim 67, wherein said step of replacing said plurality of images with one of said first, second, and third objects, further comprises enlarging a size of at least said one of said plurality of images before replacing said one of said plurality of images with said one of said first, second, and third objects, thereby simulating movement of said one of said plurality of images in a z-axis of said display device.

76. (New) The method of Claim 67, wherein each one of said plurality of applications comprises a web browser application, and each one of said first, second, and third objects comprises a web browser window.

77. (New) A system for displaying a timeline associated with a plurality of applications and allowing a user to modify an output of one of said plurality of applications by interacting with said timeline, comprising:

- a display device;

- at least one input device;

- at least one processor operatively coupled to said display device and said at least one input device; and

- a memory device comprising executable code for:

 - receiving a plurality of inputs from said at least one input device, said plurality of inputs comprising at least first, second, and third inputs;

 - opening said plurality of applications in response to said plurality of inputs, said plurality of applications comprising at least first, second, and third applications, wherein each one of said plurality of applications is configured to (i) generate an object having application-specific data, (ii) display said object on said display device, and (iii) allow said user to modify at least a portion of said application-specific data by interacting with said object; and

 - displaying on said display device said timeline associated with said plurality of applications, comprising;

 - generating a plurality of images, said plurality of images comprising at least first, second, and third images, wherein said first image is an image of at least a portion of a first object generated by said first application and having first application-specific data, said second image is an image of at least a portion of a second object generated by said second application and having second application-specific data, and said third image is an image of at least a portion of a third object generated by said third application and having third-application data; and

displaying said plurality of images on said display device in an order based on a last time that said at least one processor received (i) said first input and a last interaction with said first object, (ii) said second input and a last interaction with said second object, and (iii) said third input and a last interaction with said third object; and

allowing said user to modify at least a portion of one of said first, second, and third application-specific data, comprising:

receiving a fourth input from said at least one input device, said fourth input interacting with one of said plurality of images corresponding to one of said plurality of applications;

replacing said plurality of images with one of said first, second, and third objects corresponding to said one of said plurality of applications in response to said fourth input;

receiving a fifth input from said at least one input device, said fifth input interacting with said one of said first, second, and third objects; and

modifying said one of said first, second, and third application-specific data in response to said fifth input.

78. (New) The system of Claim 77, wherein said step of displaying said plurality of images on said display device further comprises displaying said plurality of images together with a plurality of icons, wherein each one of said plurality of images has a corresponding one of said plurality of icons.

79. (New) The system of Claim 77, wherein said step of displaying said plurality of images on said display device further comprises displaying said plurality of images together with a plurality of descriptions on said display device, wherein each one of said plurality of images has a corresponding one of said plurality of descriptions.

80. (New) The system of Claim 77, wherein said memory device stores data linking each one of said plurality of images with a corresponding one of said plurality of applications and a corresponding one of said order in which said plurality of images are displayed on said display device.

81. (New) The system of Claim 77, wherein said executable code is further configured to:

- display a fourth image on said display device, said fourth image being an image of a desktop having at least one other application; and

- allow said user to open said other application, said executable code being further configured to:

- receive an interaction from said user with said fourth image;

- replace said fourth image with said desktop in response to said interaction with said fourth image;

- receive an interaction from said user with said other application;

- and

- open said other application in response to said interaction with said other application.

82. (New) The system of Claim 77, wherein said executable code is further configured to:

receive a third interaction from said user on said display device; and
reorder said order in which said plurality of images are displayed on said display device in response to said third interaction.

83. (New) The system of Claim 77, wherein said step of displaying said plurality of images further comprises displaying said plurality of images in a three-dimensional space, such that a first one of said plurality of images is displayed in a foreground of said display device and said second and third ones of said plurality of images is displayed in a background of said display device.

84. (New) The system of Claim 77, wherein said step of replacing said plurality of images with one of said first, second, and third objects, further comprises enlarging a size of at least said one of said plurality of images before replacing said one of said plurality of images with said one of said first, second, and third objects, thereby simulating movement of said one of said plurality of images in a z-axis of said display device.

85. (New) The system of Claim 77, wherein each one of said plurality of applications comprises a web browser application, and each one of said first, second, and third objects comprises a web browser window.

86. (New) A method for displaying information on a plurality of applications and allowing a user to modify an output of one of said plurality of applications by interacting with said information, comprising:

receiving a plurality of inputs from a user, said plurality of inputs comprising at least first, second, and third inputs;

opening said plurality of applications in response to said plurality of inputs, said plurality of applications comprising at least first, second, and third applications, wherein each one of said plurality of applications is configured to (i) generate an output having application-specific data, (ii) display said output on a display device, and (iii) allow said user to modify at least a portion of said application-specific data by interacting with said output; and

displaying on said display device said information on said plurality of applications, comprising;

generating a plurality of images, said plurality of images comprising at least first, second, and third images, wherein said first image is an image of at least a portion of an output generated by said first application and having first application-specific data, said second image is an image of at least a portion of an output generated by said second application and having second application-specific data, and said third image is an image of at least a portion of an output generated by said third application and having third-application data; and

displaying said plurality of images on said display device in an order that said application-specific data associated with each one of said plurality of applications was displayed on said display device; and

allowing said user to modify at least a portion of one of said first, second, and third application-specific data, comprising:

receiving a first interaction from said user with one of said plurality of images corresponding to one of said plurality of applications;

replacing said plurality of images with a particular output, said particular output corresponding to said one of said plurality of applications in response to said first interaction;

receiving a second interaction by said user with said particular output; and

modifying said one of said first, second, and third application-specific data in response to said second interaction.

REMARKS

Claims 67-88 are pending in this application, with Claims 1-66 cancelled, and Claims 67-88 added as new. The Applicant respectfully request reconsideration and review of the application in view of the amendments and the following remarks.

While the pending claims are different in scope than those allowed in the Parent Application (*i.e.*, Serial No. 12/751,879), the are similar in that they include features that were considered allowable subject matter by the Examiner in the Parent Application. For this reason, the Applicant believes that the pending claims (*i.e.*, Claims 67-88) are in condition for allowance.

For example, in the Parent Application, outputs of a plurality of applications (*i.e.*, webpages) are converted into a plurality of images (*i.e.*, images of the webpages) so that they can be displayed to a user. The user is then allowed to interact with the output of the first application (*i.e.*, the first webpage) by first interacting with the first image (*i.e.*, an image of the first webpage), and then interacting with the output from the first application (*i.e.*, the first webpage). The system facilitates this by replacing the plurality of images with the output of the first application (*i.e.*, the first webpage) in response to the user interacting with the first image. See, *e.g.*, Parent Application at Claim 82. The pending claims are similar in that a plurality of images (*i.e.*, image of outputs) are displayed to a user, and the user is allowed to interact with a particular output by first interacting with a corresponding image and then the particular output. The pending claims further provide that the plurality of images are displayed in chronological order, allowing the user to view the application in order of use.

To the extent it would be helpful to place this application in condition for allowance, the Applicant encourages the Examiner to contact the undersigned counsel and conduct a telephonic interview.

While the Applicant believes that no fees are due in connection with the filing of this paper, the Commissioner is authorized to charge any shortage in fees , including

Serial No. Not Yet Assigned
September 30, 2014
Page 15

extension of time fees, to Deposit Account No. 50-6455.

Respectfully submitted,

Date: September 30, 2014



Todd Fitzsimmons
Attorney for Applicants
Registration No. 44,683

FITZSIMMONS IP LAW
14739 S. Vermont Ave.
Gardena, CA 90247
Telephone: (213) 500-1178

Electronic Patent Application Fee Transmittal

Application Number:

Filing Date:

Title of Invention:

System and Method for Displaying a Timeline Associated With a Plurality of Applications

First Named Inventor/Applicant Name:

E. Eddie Bakhash

Filer:

Todd E. Fitzsimmons

Attorney Docket Number:

747121-3

Filed as Small Entity

Utility under 35 USC 111(a) Filing Fees

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Basic Filing:				
Utility filing Fee (Electronic filing)	4011	1	70	70
Utility Search Fee	2111	1	300	300
Utility Examination Fee	2311	1	360	360

Pages:

Claims:

Miscellaneous-Filing:

Petition:

Patent-Appeals-and-Interference:

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				
Miscellaneous:				
Total in USD (\$)				730

Electronic Acknowledgement Receipt

EFS ID:	20293391
Application Number:	14503142
International Application Number:	
Confirmation Number:	5089
Title of Invention:	System and Method for Displaying a Timeline Associated With a Plurality of Applications
First Named Inventor/Applicant Name:	E. Eddie Bakhash
Customer Number:	125600
Filer:	Todd E. Fitzsimmons
Filer Authorized By:	
Attorney Docket Number:	747121-3
Receipt Date:	30-SEP-2014
Filing Date:	
Time Stamp:	20:11:51
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	Deposit Account
Payment was successfully received in RAM	\$730
RAM confirmation Number	10074
Deposit Account	506455
Authorized User	

The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:

Charge any Additional Fees required under 37 C.F.R. Section 1.16 (National application filing, search, and examination fees)

Charge any Additional Fees required under 37 C.F.R. Section 1.17 (Patent application and reexamination processing fees)

Charge any Additional Fees required under 37 C.F.R. Section 1.19 (Document supply fees)

Charge any Additional Fees required under 37 C.F.R. Section 1.20 (Post Issuance fees)

Charge any Additional Fees required under 37 C.F.R. Section 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	Application Data Sheet	Application_Data_Sheet_Signed.pdf	340066 ea7d859b365777a4418241eb91cb657cd1e77f64	no	6

Warnings:

Information:

This is not an USPTO supplied ADS fillable form

2	Oath or Declaration filed	Declaration_Signed.pdf	69909 1508a7dedfe8f8be97c53fc838a4a9dc5d24f6158	no	1
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Warnings:

Information:

3	Transmittal of New Application	Transmittal_Form_Signed.pdf	72807 2588c9a6b0143f5c651a6aec60a646de126e7537	no	1
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Warnings:

Information:

4		Preliminary_Amendment_Signed.pdf	455287 ae8d93899f09eb2575d7e27bdc390c496e58574c	yes	15
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Multipart Description/PDF files in .zip description

Document Description	Start	End
Preliminary Amendment	1	1
Specification	2	3
Claims	4	13
Applicant Arguments/Remarks Made in an Amendment	14	15

Warnings:

Information:

5	Fee Worksheet (SB06)	fee-info.pdf	32552 9de306a5f692920289621ab4977e24859efbe7c3	no	2
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Warnings:

Information:

Total Files Size (in bytes):

970621

SPACETIME3D

EXHIBIT 2005 - PAGE 229

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.

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.

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	747121-3
		Application Number	
Title of Invention	System and Method for Displaying a Timeline Associated With a Plurality of Applications		
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		
Mr.	E.	Eddie	Bakhash			
Residence Information (Select One) ☒ US Residency ☐ Non US Residency ☐ Active US Military Service						
City	New York	State/Province	NY	Country of Residence	US	
Mailing Address of Inventor:						
Address 1	2 Columbus Ave., Apt. 32A					
Address 2						
City	New York	State/Province	NY			
Postal Code	10023	Country	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).			
☐ An Address is being provided for the correspondence Information of this application.			
Customer Number	125600		
Email Address	todd@fitzplaw.com	Add Email	Remove Email

Application Information:

Title of the Invention	System and Method for Displaying a Timeline Associated With a Plurality of Applications		
Attorney Docket Number	747121-3	Small Entity Status Claimed	☒
Application Type	Nonprovisional		
Subject Matter	Utility		
Total Number of Drawing Sheets (if any)	30	Suggested Figure for Publication (if any)	11
Filing By Reference :			

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.

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	747121-3
		Application Number	
Title of Invention	System and Method for Displaying a Timeline Associated With a Plurality of Applications		

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
12/751,879	2010-03-31	US

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	125600		

Domestic Benefit/National Stage Information:

This section allows for the applicant to either claim benefit under 35 U.S.C. 119(e), 120, 121, or 365(c) or indicate National Stage entry from a PCT application. Providing this 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 blank.

Prior Application Status	Pending	Remove	
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)
	Continuation of	12/751879	2010-03-31
Additional Domestic Benefit/National Stage Data may be generated within this form by selecting the Add button.			

Foreign Priority Information:

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.

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	747121-3
		Application Number	
Title of Invention	System and Method for Displaying a Timeline Associated With a Plurality of Applications		

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(d). 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(h)(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.
--

Authorization to Permit Access:

☐ Authorization to Permit Access to the Instant Application by the Participating Offices

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	747121-3
		Application Number	
Title of Invention	System and Method for Displaying a Timeline Associated With a Plurality of Applications		

If 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 World Intellectual Property Office (WIPO), and any other intellectual property offices in which a foreign application claiming priority to the instant patent application is filed access to the instant patent application. See 37 CFR 1.14(c) and (h). This box should not be checked if the applicant does not wish the EPO, JPO, KIPO, WIPO, or other intellectual property office in which a foreign application claiming priority to the instant patent application is filed to have access to the instant patent application.

In accordance with 37 CFR 1.14(h)(3), access will be provided to a copy of the instant patent application with respect to: 1) the instant patent application-as-filed; 2) any foreign application to which the instant patent application claims priority under 35 U.S.C. 119(a)-(d) if a copy of the foreign application that satisfies the certified copy requirement of 37 CFR 1.55 has been filed in the instant patent application; and 3) any U.S. application-as-filed from which benefit is sought in the instant patent application.

In accordance with 37 CFR 1.14(c), access may be provided to information concerning the date of filing this Authorization.

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. ☐				
Prefix	Given Name	Middle Name	Family Name	Suffix

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.

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	747121-3
		Application Number	
Title of Invention	System and Method for Displaying a Timeline Associated With a Plurality of Applications		

Mailing Address Information For Applicant:			
Address 1			
Address 2			
City		State/Province	
Country		Postal Code	
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:

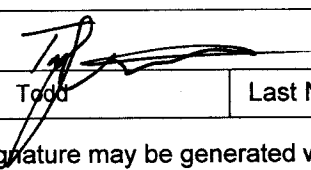
Providing assignment information in this section does not substitute for compliance with any requirement of part 3 of Title 37 of CFR to have an assignment recorded by the Office.

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.				

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.

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	747121-3
		Application Number	
Title of Invention	System and Method for Displaying a Timeline Associated With a Plurality of Applications		

Signature:

NOTE: This form must be signed in accordance with 37 CFR 1.33. See 37 CFR 1.4 for signature requirements and certifications.					
Signature			Date (YYYY-MM-DD)	2014-09-30	
First Name	Todd	Last Name	Fitzsimmons	Registration Number	44683
Additional Signature may be generated within this form by selecting the Add button.					

This collection of information is required by 37 CFR 1.76. 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 23 minutes to complete, including gathering, preparing, and submitting the completed application data sheet 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.**

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**

**System and Method for Displaying a Timeline Associated With a Plurality of
Applications**

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 _____
filed on _____.

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: _____

Date (Optional): 9/30/2014

Signature: *Edwin B. Baker*

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.

PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875	Application or Docket Number 14/503,142	Filing Date 09/30/2014	☐ To be Mailed
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 ENTITY: ☐ LARGE ☒ SMALL ☐ MICRO

APPLICATION AS FILED – PART I

FOR	NUMBER FILED	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), (l), 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	(Column 1)	(Column 2)	(Column 3)	HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE (\$)	ADDITIONAL FEE (\$)
	09/30/2014	CLAIMS REMAINING AFTER AMENDMENT					
	Total (37 CFR 1.16(i))	* 20	Minus	** 20	= 0	X \$40 =	0
	Independent (37 CFR 1.16(h))	* 3	Minus	***3	= 0	X \$210 =	0
	☐ Application Size Fee (37 CFR 1.16(s))						
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))						
TOTAL ADD'L FEE						0	

AMENDMENT	(Column 1)	(Column 2)	(Column 3)	HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE (\$)	ADDITIONAL FEE (\$)
		CLAIMS REMAINING AFTER AMENDMENT					
	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
/VICTORIA BROWN/

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.