

Doc Code: PA..

Document Description: Power of Attorney

PTO/AIA/82A (07-13)

Approved for use through 11/30/2014. OMB 0651-0051

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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TRANSMITTAL FOR POWER OF ATTORNEY TO ONE OR MORE REGISTERED PRACTITIONERS

NOTE: This form is to be submitted with the Power of Attorney by Applicant form (PTO/AIA/82B) to identify the application to which the Power of Attorney is directed, in accordance with 37 CFR 1.5, unless the application number and filing date are identified in the Power of Attorney by Applicant form. If neither form PTO/AIA/82A nor form PTO/AIA82B identifies the application to which the Power of Attorney is directed, the Power of Attorney will not be recognized in the application.

Application Number

Filing Date

First Named Inventor

Chris Barrow

Title

INTEGRATED CENTRALIZED PROPERTY DATABASE SYSTEMS AND METHODS

Art Unit

Examiner Name

Attorney Docket Number

290115.425

SIGNATURE of Applicant or Patent Practitioner

Signature

/Justin Coe/

Date (Optional)

2016-02-22

Name

Justin Coe

Registration
Number

67382

Title (if Applicant is a
juristic entity)

Applicant Name (if Applicant is a juristic entity)

NOTE: This form must be signed in accordance with 37 CFR 1.33. See 37 CFR 1.4(d) for signature requirements and certifications. If more than one applicant, use multiple forms.

☐

*Total of _____ forms are submitted.

This collection of information is required by 37 CFR 1.131, 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.

Doc Code: PA..

Document Description: Power of Attorney

PTO/AIA/82B(07-12)

Approved for use through 11/30/2014. OMB 0651-0035

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

POWER OF ATTORNEY BY APPLICANT

I hereby revoke all previous powers of attorney given in the application identified in the attached transmittal letter.

- ☒ I hereby appoint Practitioner(s) associated with the following Customer Number as my/our attorney(s) or agent(s), and to transact all business in the United States Patent and Trademark Office connected therewith for the application referenced in the attached transmittal letter (form PTO/AIA/82A or equivalent):

00500

OR

- ☐ I hereby appoint Practitioner(s) named below as my/our attorney(s) or agent(s), and to transact all business in the United States Patent and Trademark Office connected therewith for the application referenced in the attached transmittal letter (form PTO/AIA/82A or equivalent):

Name	Registration Number	Name	Registration Number

Please recognize or change the correspondence address for the application identified in the attached transmittal letter 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 Joint Inventor
☐ Legal Representative of a Deceased or Legally Incapacitated Inventor
☒ Assignee or Person to Whom the Inventor is Under an Obligation to Assign
☐ Person Who Otherwise Shows Sufficient Proprietary Interest (e.g., a petition under 37 CFR 1.46(b)(2) was granted in the application or is concurrently being filed with this document)

SIGNATURE of Applicant for Patent			
Signature		Date	5/28/13
Name	Chris Pershing	Telephone	866-659-8439 x501
Title and Company	CTO; Eagle View Technologies, Inc.		

NOTE: Signature - This form must be signed by the applicant in accordance with 37 CFR 1.33. See 37 CFR 1.4 for signature requirements and certifications. Submit multiple forms for more than one signature, 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.

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.

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Inventor(s) : Chris Barrow et al.
For : INTEGRATED CENTRALIZED PROPERTY DATABASE
SYSTEMS AND METHODS

Docket No. : 290115.425
Date : February 22, 2016

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

FEE DEFICIENCY AUTHORIZATION FORM

Commissioner for Patents:

Applicant(s) hereby authorize(s) the Director to charge any deficiencies or credit any overpayment in fees due by way of the enclosed papers only to Deposit Account No. 19-1090.

Respectfully submitted,
SEED Intellectual Property Law Group PLLC

/Justin Coe/
Justin Coe
Registration No. 67,382

701 Fifth Avenue, Suite 5400
Seattle, Washington 98104
Phone: (206) 622-4900
Fax: (206) 682-6031

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PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Inventor(s) : Chris Barrow et al.
For : INTEGRATED CENTRALIZED PROPERTY DATABASE
SYSTEMS AND METHODS

Docket No. : 290115.425
Date : February 22, 2016

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

INFORMATION DISCLOSURE STATEMENT TRANSMITTAL

Commissioner for Patents:

In accordance with 37 C.F.R. 1.56 and 1.97 through 1.98, Applicant wishes to make known to the U.S. Patent and Trademark Office the references set forth on the attached Information Disclosure Statement. Copies of cited U.S. patents and published patent applications are not required and accordingly have not been provided. Copies of any other cited references are enclosed. As to any reference cited, Applicant does not admit that it is “prior art” under 35 U.S.C. §§ 101, 102 or 103. Although the aforesaid references are made known to the Patent and Trademark Office in compliance with applicant’s duty to disclose all information they are aware of which is believed relevant to the examination of the above-identified application, Applicant believes that their invention is patentable.

Please acknowledge receipt of this Information Disclosure Statement and kindly make the cited references of record in the above-identified application.

Applicant believes this Information Disclosure Statement has been timely filed, however, the Director is authorized to charge any fee due by way of this Information Disclosure Statement to our Deposit Account No. 19-1090.

Respectfully submitted,
SEED Intellectual Property Law Group PLLC

/Justin Coe/
Justin Coe
Registration No. 67,382

JEC:trl

Enclosure:
Information Disclosure Statement

701 Fifth Avenue, Suite 5400
Seattle, Washington 98104
Phone: (206) 622-4900
Fax: (206) 682-6031

4715357_1.docx

U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)	ATTY. DOCKET NO. 290115.425	APPLICATION NO.
	INVENTOR(S) Chris Barrow et al.	
	FILING DATE	GROUP ART UNIT

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	KIND CODE	DATE	NAME	FILING DATE IF APPROPRIATE
	1	2014/0280269	A1	09/18/14	Schultz et al.	
	2					
	3					
	4					
	5					

FOREIGN PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	KIND CODE	DATE	COUNTRY	TRANSLATION YES NO	
	1						
	2						
	3						
	4						

NON-PATENT LITERATURE DOCUMENTS *(Including Author, Title, Date, Pertinent Pages, Etc.)*

	1		
	2		
	3		
	4		
	5		
	6		

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

Electronic Patent Application Fee Transmittal				
Application Number:				
Filing Date:				
Title of Invention:		INTEGRATED CENTRALIZED PROPERTY DATABASE SYSTEMS AND METHODS		
First Named Inventor/Applicant Name:		Chris Barrow		
Filer:		Justin E. Coe/Tyler Livas		
Attorney Docket Number:		290115.425		
Filed as Large Entity				
Filing Fees for Utility under 35 USC 111(a)				
Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Basic Filing:				
Utility application filing	1011	1	280	280
Utility Search Fee	1111	1	600	600
Utility Examination Fee	1311	1	720	720
Pages:				
Claims:				
Claims in Excess of 20	1202	1	80	80
Independent claims in excess of 3	1201	1	420	420
Miscellaneous-Filing:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				
Miscellaneous:				
Total in USD (\$)				2100

Electronic Acknowledgement Receipt	
EFS ID:	24979678
Application Number:	15049595
International Application Number:	
Confirmation Number:	2683
Title of Invention:	INTEGRATED CENTRALIZED PROPERTY DATABASE SYSTEMS AND METHODS
First Named Inventor/Applicant Name:	Chris Barrow
Customer Number:	500
Filer:	Justin E. Coe/Tyler Livas
Filer Authorized By:	Justin E. Coe
Attorney Docket Number:	290115.425
Receipt Date:	22-FEB-2016
Filing Date:	
Time Stamp:	15:12:05
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	Credit Card
Payment was successfully received in RAM	\$2100
RAM confirmation Number	1531
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	Application Data Sheet	290115_425_ADS.pdf	1823236	no	9
			016a967606585e5495e9a81b643d318c64a56e06		
Warnings:					
Information:					
2		290115_425_APP.pdf	109735	yes	33
			64d09e109771d5be71c3f553bdfba68f60cdfd80		
	Multipart Description/PDF files in .zip description				
	Document Description	Start	End		
	Specification	1	27		
	Claims	28	32		
	Abstract	33	33		
Warnings:					
Information:					
3	Drawings-only black and white line drawings	290115_425_FIGS.pdf	2952673	no	6
			6206516e1b5b9cedc86192c79e66401cbb6a12d7		
Warnings:					
Information:					
4	Oath or Declaration filed	290115_425_DECS.pdf	940001	no	3
			2ef6c07ca98e6da42a5f09cc71d0769f4506ba1c77		
Warnings:					
The page size in the PDF is too large. The pages should be 8.5 x 11 or A4. If this PDF is submitted, the pages will be resized upon entry into the Image File Wrapper and may affect subsequent processing					
Information:					
5	Power of Attorney	290115_425_POA.pdf	303461	no	3
			804d59cf3a9b79c89ce85701f8c3d96e1d28186e		
Warnings:					
Information:					

6	Miscellaneous Incoming Letter	290115_425_FDA.pdf	44907 b6a6d7b10a4046dd5c9d336b601d0b88785269d0	no	1
Warnings:					
Information:					
7	Transmittal Letter	290115_425_IDS_LTR.pdf	60318 20ceb6c57d60eead8b7ec43f27b603d71a0e59a4	no	2
Warnings:					
Information:					
8	Information Disclosure Statement (IDS) Form (SB08)	290115_425_IDS.pdf	93561 2a027001bdf5b0dc31f71d57aa8614d213b97879	no	1
Warnings:					
Information:					
This is not an USPTO supplied IDS fillable form					
9	Fee Worksheet (SB06)	fee-info.pdf	38508 14cb7500d80526987c27921247ec43b99fbf7428	no	2
Warnings:					
Information:					
Total Files Size (in bytes):			6366400		
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.					

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	290115.425
		Application Number	
Title of Invention	INTEGRATED CENTRALIZED PROPERTY DATABASE SYSTEMS AND METHODS		
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
	Chris		Barrow	
Residence Information (Select One) ☒ US Residency ☐ Non US Residency ☐ Active US Military Service				
City	Woodinville	State/Province	WA	Country of Residence
				US
Mailing Address of Inventor:				
Address 1	14241 NE Woodinville Duvall Rd. #211			
Address 2				
City	Woodinville	State/Province	WA	
Postal Code	98072	Country	US	
Inventor	2	Remove		
Legal Name				
Prefix	Given Name	Middle Name	Family Name	Suffix
	Chris		Pershing	
Residence Information (Select One) ☒ US Residency ☐ Non US Residency ☐ Active US Military Service				
City	Redmond	State/Province	WA	Country of Residence
				US
Mailing Address of Inventor:				
Address 1	17401 Northeast 138th Street			
Address 2				
City	Redmond	State/Province	WA	
Postal Code	98052	Country	US	
Inventor	3	Remove		
Legal Name				
Prefix	Given Name	Middle Name	Family Name	Suffix
	David		Kinsman	
Residence Information (Select One) ☒ US Residency ☐ Non US Residency ☐ Active US Military Service				

Application Data Sheet 37 CFR 1.76		Attorney Docket Number		290115.425	
		Application Number			
Title of Invention		INTEGRATED CENTRALIZED PROPERTY DATABASE SYSTEMS AND METHODS			
City	Woodinville	State/Province	WA	Country of Residence	US
Mailing Address of Inventor:					
Address 1		18115 NE 146th Way			
Address 2					
City	Woodinville	State/Province	WA		
Postal Code	98072	Country	US		
All Inventors Must Be Listed - Additional Inventor Information blocks may be generated within this form by selecting the Add button.					

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	00500		
Email Address	justinc.docketing@seedip.com	Add Email	Remove Email

Application Information:

Title of the Invention	INTEGRATED CENTRALIZED PROPERTY DATABASE SYSTEMS AND METHODS		
Attorney Docket Number	290115.425	Small Entity Status Claimed	☐
Application Type	Nonprovisional		
Subject Matter	Utility		
Total Number of Drawing Sheets (if any)	6	Suggested Figure for Publication (if any)	

Filing By Reference:

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

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

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

Publication Information:

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

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

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	290115.425
		Application Number	
Title of Invention	INTEGRATED CENTRALIZED PROPERTY DATABASE SYSTEMS AND METHODS		

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	00500		

Domestic Benefit/National Stage Information:

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

When referring to the current application, please leave the "Application Number" field blank.

Prior Application Status		Remove	
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
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. When priority is claimed to a foreign application that is eligible for retrieval under the priority document exchange program (PDX)ⁱ the information will be used by the Office to automatically attempt retrieval pursuant to 37 CFR 1.55(i)(1) and (2). Under the PDX program, applicant bears the ultimate responsibility for ensuring that a copy of the foreign application is received by the Office from the participating foreign intellectual property office, or a certified copy of the foreign priority application is filed, within the time period specified in 37 CFR 1.55(g)(1).

Application Number	Country ⁱ	Filing Date (YYYY-MM-DD)	Remove
			Access Code ⁱ (if applicable)
Additional Foreign Priority Data may be generated within this form by selecting the Add button.			

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	290115.425
		Application Number	
Title of Invention	INTEGRATED CENTRALIZED PROPERTY DATABASE SYSTEMS AND METHODS		

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

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

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	290115.425
		Application Number	
Title of Invention	INTEGRATED CENTRALIZED PROPERTY DATABASE SYSTEMS AND METHODS		

Authorization or Opt-Out of Authorization to Permit Access:

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

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

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

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

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

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

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

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

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

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

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

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	290115.425
		Application Number	
Title of Invention	INTEGRATED CENTRALIZED PROPERTY DATABASE SYSTEMS AND METHODS		

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Application Data Sheet 37 CFR 1.76		Attorney Docket Number	290115.425
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Title of Invention	INTEGRATED CENTRALIZED PROPERTY DATABASE SYSTEMS AND METHODS		

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INTEGRATED CENTRALIZED PROPERTY DATABASE SYSTEMS AND METHODS

BACKGROUND

Technical Field

5 This disclosure is in the field of aggregating information associated with all geographic points on the earth, where the information is captured from distributed data sources and integrated into a centralized database that may be queried for a complete time history of any geographic point on the earth.

Description of the Related Art

10 Information about property and the attributes of property, such as title information, geographic characteristics, insurance policies in force, and building and utility information, is usually publically available, but is stored by different entities in different locations using different formats. Some of the information is found by identifying an address or other number that identifies a real estate parcel
15 and then contacting the record keeper of the type of information desired, such as a county records office, about the parcel number or address of the property. In some instances, information of interest may be more quickly found by using the Internet or an aggregator such as Zillow™ or Google Maps™ to access information about the property.

20 However, this approach to collecting data has a number of drawbacks. First, this data is tracked based on identifiers such as parcels, lots, townships, cities, ZIP Codes, school districts, and the like. These identifiers may have changed over time such that they represent different points on the earth at different times. Second, in the case of parcels, information may be out of date,
25 and information related to the parcel or point of land will be stored in many different locations. In addition, it may be nearly impossible to identify and locate all

available information that may relate to that parcel, for example events concerning the parcel that may not be in official county tax base or other government records. Further, many events are stored in different places and different databases. These include events such as crime events, news articles, or private photographs of the
5 location over its various histories.

BRIEF SUMMARY

The present disclosure provides systems and methods to create and maintain an integrated centralized property database containing all information, including a full time history, associated with any given point on the earth. In some
10 embodiments, this point may be identified by latitude and longitude coordinates.

The integrated centralized property database receives information from various data sources, which may include, for example, data sources accessible through the Internet, government databases relating to property, crime data, weather data and the like, as well as any other types of public or private data.
15 The data sources may be located by web crawlers, image crawlers, data feeds or the like, and may be updated periodically to ensure the data stored in the integrated centralized property database is current.

The received data items may be processed to determine relevant category information (e.g., weather data, crime data, demographic data, property
20 sales or change of ownership or classification data, tax assessment data, and so on). Further, the data items may be processed to determine or extract geocoding information, such as latitude, longitude and/or Z-axis information (*i.e.*, height above or depth below the surface of the earth). The category and/or geocoding information may be associated with the data items for storage in the integrated
25 centralized property database. As such, the integrated centralized property database may store a variety of information of all types which is related to one or more geographic points on the earth. Further, the data items may include or be

associated with particular date or time information, for example, indicating a time or range of times to which the information pertains.

A user interface is provided which allows users to access the integrated centralized property database. Queries may be performed via the user interface and the integrated centralized property database will be searched for all relevant information associated with the query. For example, a user may input a specific latitude/longitude, and the system will retrieve, and output via the user interface, all relevant information associated with that particular latitude/longitude. The query may further include a time or range of times, in which case, the system will retrieve all relevant information associated with both the input location information (e.g., a particular latitude/longitude, an area defined by an input polygon or the like) and the input time information.

One benefit to the embodiments described herein is that a user can input a query about a location on the earth and receive, from a single database and single server, all activities and information associated with that location, sorted by date and type of activity/information.

One method to carry out one or more embodiments may be summarized as including: storing a plurality of data items in a data aggregation system, each of the plurality of data items being associated with one or more location identifiers indicating a particular point on the earth; receiving, by at least one processor, a query indicating a geographic location; retrieving, from the data aggregation system, data items having associated location identifiers matching the received geographic location; and outputting the retrieved data items.

The one or more location identifiers may include latitude and longitude coordinates of a geographic point on earth. The one or more location identifiers may further include Z-axis coordinates that identifies a distance above or below the earth.

The received geographic location may include a region on the earth. The region on the earth may be identified by multiple geocoded locations, the

multiple geocoded locations described in at least latitude and longitude coordinates. At least a portion of the plurality of data items stored in the data aggregation system may further be associated with one or more time identifiers, and the method may further include: receiving, by the at least one processor, a
5 time identifier, wherein retrieving from the data aggregation system may further include retrieving data items having associated time identifiers matching the received time identifier. The time identifier may include one or more time periods. The one or more location identifiers may include content external to the data aggregation system. The stored data items may include at least one of: tax data,
10 building code data, weather data, insurance data, crime data, survey data, school data, demographic data and property data.

One system that can carry out one or more embodiments may be summarized as including: a computer processor; a memory coupled to the processor; and an integrated centralized property database, the processor being
15 configured to: receive from a user computer a query including a location identifier, the location identifier including one of a geocoded location and multiple geocoded locations identifying a polygon, receive from the user computer a time period identifier, retrieve from the integrated centralized property database location data, the location data including data associated with the location identifier and with the
20 time period identifier, and provide the retrieved location data to the user computer via a graphical user interface.

The processor may be further configured to: retrieve parcel information from the integrated centralized property database; compare the retrieved parcel information with the location data to determine parcels associated
25 with the location identifier; and output the parcels associated with the location identifier. The processor may be further configured to: retrieve insurance policy information from the integrated centralized property database; compare the retrieved insurance policy information with the parcels associated with the location

identifier to determine the insurance policies associated with the location identifier; and output the insurance policies associated with the location identifier.

The system can be considered as having a means for storing a plurality of data items in a data aggregation system, each of the plurality of data items being associated with one or more location identifiers indicating a particular point on earth; means for receiving a query indicating a geographic location; means for retrieving data items having associated location identifiers matching the received geographic location; and means for outputting the retrieved data items.

BRIEF DESCRIPTION OF THE SEVERAL VIEWS OF THE DRAWINGS

Figure 1 is a block diagram illustrating an embodiment of an environment in which an integrated centralized property database is used.

Figure 2 is a diagram showing the components of a data item, in accordance with one or more embodiments.

Figure 3 is a block diagram illustrating a process for adding geocoding information and category information to a data item, in accordance with one or more embodiments.

Figure 4 is a flowchart illustrating a process for determining relevant geocoding information, in accordance with one or more embodiments.

Figure 5 is a flowchart illustrating a process for associating one or more categories to a data item, in accordance with one or more embodiments.

Figure 6 is a block diagram illustrating a computing system for managing and providing access to the integrated centralized property database, in accordance with one or more embodiments.

DETAILED DESCRIPTION

An integrated centralized database is disclosed that aggregates all information that is related to, or associated with, any geographic point on the earth, and includes any changes in information over time with respect to that point. A

point on the earth is identified by geocoded coordinates, or latitude/longitude. This aggregated information may be related to parcels and buildings associated with that point, insurance claims data, weather data, crime data, demographic data, buildings on that point, reported activities and events, or other related data by time

5 period. The system constantly scans for new information that can be categorized and associated with one or more points on the earth. The centralized database can then be queried to retrieve any and all data related to that point. For example, in one embodiment the simplest query may include providing only a latitude and longitude, and all information related to that point will be retrieved. In other

10 examples, the query may include a request for data associated with locations within a certain proximity to the point. In addition to a single point, queries for information related to multiple points may be performed. In one or more embodiments, the multiple points may be defined by a region, such as by a polygon with vertices identified by a series of geocoded coordinates that include all

15 geographic locations within the polygon area. In other embodiments, a region may be identified by a name or one or more features used to identify a geographic area. In another embodiment, a region defining points may be described as a combination of location description and a point in time. For example, the footprint of the residence building at property address 123 Dry Creek Road, Napa Valley,

20 CA, on July 4, 1970, or city of Humptulips, WA, as boundaries were defined on January 31, 1989.

One of the advantages of tracking data associated with a geographic point on the earth is the continuity of location description over time. For example, by using a lot number, a parcel identifier, a county, or city identifier to get

25 information about a specific geographic location, a person is not guaranteed to identify the same geographic location over time. For example, a parcel of land from the 1850s may be the result of the subdivision of a much larger block of land acquired earlier by the state. That parcel may have since been subdivided, and portions of the parcel converted to industrial use with industrial utilities installed

and underground storage tanks added. Subsequently, some of the subdivided parcels may have been recombined into new larger parcel and converted into farm use. Several decades later, the larger parcel may have been converted to residential use and subdivided for individual family homes. In this example, it would be difficult to research exactly what happened on the land over the last several hundred years because parcel descriptions of the land were constantly changing. However, each individual geographic point on the earth has a specific history of the parcel associated with it, for example its change of zoning status, which parcels it fell within, who owned it, any permitted improvement, insurance coverage and claims, to whom it was bought and sold, and so on. Therefore, by associating information with one or more geocoded locations on earth, information can be accurately obtained concerning a particular geographic area over any time period.

Figure 1 is a block diagram 400 which describes an embodiment of an environment in which an integrated centralized property database 102 (which may be referred to at portions herein as “integrated database 102”) is used. The integrated database 102 receives its data from a variety of different data sources 116, which may include data accessible from the Internet, data accessible from a government, insurance company or any third-party database, and the like. Data provided from the data sources 116 includes a variety of types of data that is, or can be, associated with a particular location or point on Earth.

Types of Data

A wide range of data may be associated with a particular geographic point on the earth, including but not limited to legal data, property characteristic data, transactional data, environmental data, demographic data, and event data.

Examples of legal data include, but are not limited to, deeds or chains of title that include legal descriptions; boundary descriptions; subdivision information, including parcel changes; tax information on the associated parcel;

and liens, mortgages, or other encumbrances ever placed or removed. It may also include government records from the city, county, state, or national levels, pertaining to any real or personal property associated with that point.

In some embodiments, legal data may include transactional data
5 such as purchase, sale, leasing and/or rental agreements including rental contracts, securitization, encumbrance, or other related legal documents, and other documented changes concerning the point that affects ownership or ownership rights. For example, this may include rights involving the point such as mineral rights, water rights, and other land-related rights, as well as transactions
10 regarding buildings or other improvements associated with the point. In these embodiments, the data associated with the point can be used to identify previous owners, previous tenants, and the terms and extent of their holdings.

Legal data may also include insurance contract data that describes, for a particular point, any policy ever written associated with that point, the current
15 policies that are in force, the rates and terms of such policies, any claims made against the policies, and the final outcome of the claim. This data may also include risk management analysis, performed by insurance carriers that did not result in the issuance of any policies. In addition, this information may include photos, tax records, other public records, and property value assessments.

20 In some embodiments, property characteristic data may be divided into real property and improvements. Real property characteristic data may include elevation, ground slope, soil conditions such as farmland, rocky, marsh, stream, lake, forest, meadow, undeveloped land, paved land, or other. Property characteristic data may also include designations such as floodplain, high risk hail
25 area, or tornado susceptible area.

Improvements characteristic data may include descriptions of one or more buildings on that point; utilities such as water, sewer, electricity or gas running under, through, or over that point; building permits issued or denied, blueprints, on-site photos, videos, inspections, and stop-work and other notices. It

may include terrain information such as fill added. In addition, land information associated with the point, but not directly on the point, may include power pole locations, hydrant locations, high-voltage transmission line placement, erosion effects, and vegetation changes. Also, features associated below the point may

5 also be included such as caves, water reserves, mineral deposits, oil reserves or natural gas reserves. Improvement characteristics data may also include analysis in condition data for structures related to the point. For example, reports showing building conditions, such as type of building, square footage, type of materials used in construction, current condition of aspects of the property such as exterior

10 wall conditions, roof conditions and associated roof reports, the results of on-site inspections and analysis, etc. Also included may be construction dates, remodeled dates and demolition dates for buildings, including blueprints and utilities maps for the buildings. In addition to written information, image, video, audio and other methods of capturing information associated with the point may

15 also be stored. For example, aerial images of the property and buildings on the property may be included that come from satellite images, overhead flights, or images captured by property owners, contractors, or service providers, or pictures from other sources, such as recreational photos, that can be associated with that point.

20 Environmental data may also be associated with the point. For example, standard weather data such as temperature, pressure, precipitation, and the like may be included, along with meteorological data describing major weather events such as tornadoes, hailstorms, lightning, hurricanes, snowstorms, heat waves, and the like that have an impact on the value of the property associated

25 with the point. This data may also include forecasted data, officially reported data, and actual measured data describing the event and its effects. Other examples of events may include earthquakes, floods, and fires that have occurred on the point, or near enough to affect the point.

Other data regarding demographic information, or social data, may be associated with a particular point. For example, average income, education, number of children, crime rates, quality of life measures, school district ratings, unemployment data, weather data, political affiliation data and the like. In addition, 5 consumer and/or business purchase data may also be aggregated and associated with particular points on the earth. For example, the number and type of new car purchases associated with registered vehicle owners having an address listed for that point or within a particular radius of a point. More detailed events may be associated with the property, for example, the contents and date of filed police 10 reports for property associated with the point, specific crime data for criminal record history of people within a region of the point, time and content of any 911 calls or other emergency contacts made from an area associated with the point, and so on.

There are many sources of data associated with a particular address 15 of an activity, an individual, a license, a policy, or other issues. For example, when a person files for any type of license, whether driver's license, fishing license, marriage license, or any approval issued by a state, city, or county, they are frequently required to provide the address of their current residence. This address is a geographic location. At the time that the license is applied for, the address will 20 be a geographic location of a polygon of a certain size. It may be a few thousand square feet, a few acres, or any one of a number of different sizes and shapes. At a different point in time, that same address may represent a different sized or shaped polygon. Accordingly, the address and the date for that address are interesting data points for storage. Additional information is the particular type of 25 license that was requested for that address. For example, a particular address may have one, two, or dozens of people listing that as their address for a type of license or registration. For example, multiple people may list the same address for their driver's license, voter registration, boat registration, and the like. Knowing the number of people that have listed the same address for their voter registration or,

similarly, an address associated with a geographic location that is within the same polygon as another address has particular benefits.

Other events that may be of particular interest are whether the address was listed in any form for a purchase of a firearm, a person selling a
5 firearm, or a person requesting a concealed carry permit for a firearm. The address of a person requesting to purchase certain materials, such as chemical compositions, garden fertilizer, and in what quantities and other data may also be of interest.

Many private transactions, not associated with a government entity or
10 license request, are also frequently associated with a particular address. This may include a request for a credit card; joining a private organization such as the Lion's Club, the Boy Scouts of America, the Girl Scouts of America; applying for a private service, such as a telephone installation, having a plumber come visit, having a visit from an electrician, the pumping of a septic tank, installation of a property
15 improvement such as a hot tub, a swimming pool, cutting of trees, the buying or selling of livestock, or any one of a number of transactions which are private as between two individuals or an individual and a company, but in which one of the individuals provides an address that is associated with that particular transaction. This address may then be loaded into any one of a number of available databases,
20 such as into the person's Facebook account, a log record of visits made by a plumbing company, an auctions house listing of the address of people who bought and sold goods, livestock or other items at the auction, or the like. These are instances in which the transactions were private between individuals and no record was made in any government database maintained at a city, county, state, or
25 federal level. However, the database may have become available based on the voluntary listing by one or more of the people involved in the transaction, such as inputting to the business storage records and the then the business records being made available on the Internet, posting to a social media website, such as Facebook, Twitter, Linked In or the like.

In addition, there are two types of data which may be associated with a particular address. One is an event originating from that address and another is an event about that address. For example, a neighbor may call in a complaint about a different property being an eyesore or violating local zoning laws. In that instance, there are two addresses associated with the particular event, the first address is the address of the person who issued the complaint and the second is the address about which the complaint was made. Thus, for a single event, namely a complaint regarding the maintaining of property, there will be two geographic locations associated with that event, one of which will be the geographic location where data originated and another the geographic location of where the event itself is taking place. Thus, for each event there may be multiple addresses associated with that event and each address will have a data field that indicates whether the event occurred at that address or whether the reporting of that event came from that address or some other particular way that the address is associated with the particular event.

Other sources of information between private individuals may include magazine subscription, mailing lists, donations to local causes, donations to charity, or other activities in which one of the parties provides the address at which they will be receiving goods being shipped by another party where the goods are being purchased from Amazon, Barnes & Noble, or any other many thousands of Internet shopping sites which are available.

The data may take a number of different forms including, but not limited to numbers, text, images, graphics, and audio and video. The data may also be in a form readable by a computer or other device, such as a binary form or encrypted form, or in multiple forms that may be combined in one or more ways. In addition, the data may contain references to locations of other data sources. This may include links, such as hypertext links to areas on the internet, or references to other systems, for example executable modules or other computer implemented algorithms, that return data related to the point on the earth.

This data described above represents a very small subset of all possible data that could be associated with a particular point on the earth. The data provided from data sources 116 may include any such type of data that could be associated with a particular point on the earth, including the types described
5 above, and may be provided from data sources 116 including those described above.

Collecting Data

Data related to a point on the earth is collected from data sources 116 in a variety of ways. In some embodiments, web crawlers 108 are used to
10 search for data or updates to data in a systematic way throughout the Internet to search for data concerning regions that are associated with particular points on the earth. For example, given a particular point and a particular time, the web crawler 108 will identify and collect the information, such as described above, on the parcels, neighborhoods, cities, counties, and state with which the point is
15 associated.

In addition, image crawlers 110 may be used to systematically examine images, accessible via the internet or other sources, and image metadata associated with each image. Metadata may include, for example, an image title, image description, or latitude/longitude at which the picture was taken. For
20 example, the image crawler 110 may find an image taken at a wedding held in a field next to a property where the background of the image includes the property. The metadata in the picture may include the latitude and longitude of the camera location, the time the image was captured, and the cardinal direction the camera was pointing. From this information, the image crawler 110 can determine that the
25 image is relevant to the point of the earth if, for example, the image shows part of a building at the point. Additionally, or alternatively, the image may be relevant simply because it depicts a scene at the point of the earth at a particular point in time. The image crawler 110 would then add this image and its metadata

information (e.g., before or after further processing) to the integrated centralized property database 102.

Further, data may be collected from data sources 116 via data feeds 112. Data feeds 112 may include feeds of data from any type of data source 116.

- 5 For example, data feeds 112 may include subscription-based data (which may be provided for free, or for a charge) that is periodically updated and pushed to the integrated centralized property database 102. Examples of data feeds 112 may include, for example, a weather data feed that provides a continuous or periodic stream of data relating to weather conditions or forecasts. Similarly, data feeds
- 10 112 may include a police or other government service feed, which may provide a feed of data relating to criminal activity, civil complaints, road conditions and the like that may be associated with one or more geographic locations. Data feeds 112 may further include feeds from emergency or alerting services, such as Amber Alerts, weather event warning systems (e.g., a data feed providing warnings for
- 15 hurricanes, tsunamis, tornados, earthquakes, snowstorms, or the like).

- Additionally, data feeds 112 may include publicly- or privately-accessible social network data (e.g., Twitter, Facebook, Google+, Instagram, Picasa, etc.). Such social network data commonly includes user-uploaded images, text, documents and the like which may be associated with a particular point on the
- 20 earth. As such, social network data may contain relevant data which may be provided as part of a data feed, or alternatively, which may be discovered by a web crawler 108 and/or image crawler 110.

- Data feeds 112 may further include feeds of data relating to changes in status of property, such as, for example, data indicating a sale of a home, data
- 25 indicating a rezoning or change in zoning for a particular geographic location or the like.

As discussed above, information may be collected from a number of data sources 116. These may include, for example, the public Internet, private/restricted Internet sites such as those requiring a subscription, and

governmental sites. In addition, public and private data aggregation sources may also be used as data sources 116, for example those having real estate and demographic information such as Zillow, Trulia, Realtor.com, and others. In some embodiments, data, such as property characteristic data, can be purchased from
5 other data sources 116 and included in systems using the integrated centralized property database 102, either electronically or acquired in print and scanned in. Through these or other embodiments, data relating to any particular point of property on earth may be mined anywhere in the world.

Processing and Storing Data

10 The collected data may be aggregated, centralized, stored and accessed in a number of different ways in various embodiments. Processing of incoming data may be accomplished by a processor 106. In one embodiment, the integrated database 102 may consist of one database with multiple data sets which may span multiple physical machines and physical disk drives, where all
15 information collected about all points on the earth is replicated and stored. This way, all of the known and available information as of the most current time of receipt (e.g., from web crawler 108, image crawler 110 and/or data feeds 112) may be immediately retrieved from the database and presented to the user.

In another embodiment, the integrated database 102 may include a
20 combination of both replicated information and reference links to data sources outside of the database, such as to a site on the Internet. An advantage of this structure is that a cached version of the data will be immediately available from the integrated centralized database 102, and reference links will point directly to the original data source to ensure that the latest version of the data is available.

25 Referring to Figure 2, in one or more embodiments, each data item 410 has at least three individual attributes: information 130, location 132 and date 134. Information 130 includes of an actual data item and/or a reference to a data item stored at a location outside of the integrated database 102 where the

information may be retrieved. For example, the reference to data may be a link or reference to a price at which a property associated with a particular point on the earth has ever been sold, all taxes ever levied on the property, all insurance policies underwritten for the property, and so on. It may also be the data itself,
5 such as the type of license obtained, item purchased, etc.

The location 132 attribute refers to the locations on the earth to which the information refers or is associated with. This location information may be represented as a geocoded location, for example latitude/longitude. However, the location 132 may be a property street address, a parcel identifier, a ZIP code, a
10 city, county, or state designation. In some cases, it may be a region identifier such as a climate zone, a marketing area, or a bounded area of a particular event such as a hailstorm or a fire. In addition, the location 132 may correspond to a demographic or socio-economic region, such as a region within a state where the average number of people in a household is 2.5, or a region where there is at least
15 one person within the household over the age of 65, or where average income is above \$50,000.

The location 132 attribute, in one embodiment, includes at least two fields: the first field indicates the location itself, as previously described, and the second field indicates the relationship of the location to the data. In the first field,
20 the location itself may be described and stored in multiple formats. For example, in addition to being a parcel identifier or a property street address, it can also include the longitude and latitude of the boundaries of a polygon which encloses that particular parcel or property address. There are a number of other overlapping ways in which a geographic point can be defined. The relationship to
25 the data or event will provide an indication of how that particular location is related to the actual information 130 itself. The location may be indicated as where the event occurred or that the information is a description of that particular address, in which case, the location 132 field attribute would refer to itself. Alternatively, this field of the location 132 attribute may refer to the source of the data which is in the

information 130. For example, if a 911 call is made this is a single event, a single information; however, two data records can be obtained, one having the location from which the call originated and the field for the location 132 would be marked as the source of the data, and a separate record having the same event information

5 130 but whose location 132 has the field attribute that the information applies to that particular location, namely to itself. It is, thus, possible that a single piece of information 130, whether it is an event or data, may have multiple items stored because it is associated with multiple addresses or locations 132. Of course, the same location 132 may have multiple events associated with that address, as will

10 be apparent since a single address will likely have a home owner's insurance policy, driver's license, voter registrations, mailing lists, etc., all having the same location 132, but having different information 130 associated with that location 132.

In some embodiments, the date 134 attribute identifies the date and time at which the data item is or was relevant. The date 134 attribute can

15 correspond to a specific point in time, to a specific range of time, or it could be associated with multiple time ranges. For example, the tax records associated with a particular parcel of land, which contains a point on the earth of interest, may be associated with particular years, or a range of months between land assessment updates.

20 The processor 106 may generate the data items 410 based on data received from the data sources 116. For example, the processor 106 may receive an image of a particular point on earth from an image crawler 110. The processor 106 may analyze metadata received with the image to determine location information (such as, for example, latitude and longitude) associated with the

25 image, as well as to determine a date that the image was taken. The processor 106 may then create a data item 410, which may have a standard format or structure, including the information 130 (*i.e.*, the image), location 132 and date 134. This data item 410 may then be stored in the integrated centralized property database 102.

Figure 3 is a block diagram 420 illustrating a process for adding geocoding information and category information to a data item 410, in accordance with one or more embodiments. As shown in Figure 3, additional attributes may be associated with the data item 410, and may be determined by examining other data item 410 attributes. For example, the processor 106 may receive information 130 and categorize 138 the information into one or more categories 146 for easier grouping. The category 146 information may be appended to or otherwise associated with the data item 410 and stored in the integrated centralized property database 102. Example categories 146 include, but are not limited to, insurance underwriting, insurance claims, tax information, property characteristics, crime, demographics, weather events, and so on.

The data item 410 may further be analyzed by the processor 106 to determine relevant geocoding 140. In some embodiments, the location 132 attribute and the date 134 attribute may be combined to produce one or more geocoded locations identified by latitude/longitude. In this way, information 130 associated with a named location 132 that represents different areas at different dates can be properly identified with specific points on the earth. For example, tax information associated with the address 199 Dry Creek Road, Napa, CA 94558 in 1968 may have referred to a 10-acre parcel of farm land, where the same address today may refer to a single family home that was subdivided from the 10 acres in 1989. In this example, the date 1968 together with the address would identify a range of geocoded locations to which 1968 tax information would be relevant, which is different than the geocoded locations associated with any current tax information. Therefore, in these embodiments, an updated data item 410 may include – in addition to information 130, location identifier 132 and date 134 – a category 146 and one or more (e.g., a range of) geocoded coordinates 150.

Figure 4 is a flowchart illustrating a process 430 for determining relevant geocoding information. At block 152, the process includes receiving a location description 132 of a data item 410. The location description 132 of the

data item 410 may be received by the processor 106, and may be received from a web crawler 108, image crawler 110, data feeds 112 and/or update sources 114, any of which may have retrieved the location description 132 from data sources 116. As an example, the received location description 132 may be a
5 neighborhood, a parcel, a lot, an address, or other such non-geocoded location descriptions.

At block 154, the processor 106 receives the date 134 associated with the location description 132. The date 134 may be received by the processor 106 from the same source (*i.e.*, the web crawler 108, image crawler 110, data
10 feeds 112, and/or update sources 114) that provided the location description 132. Alternatively, the date 134 may be determined by the processor 106, for example, by analyzing metadata, image analysis, text analysis, or the like.

At block 156, the processor 106 determines the geographical boundaries of the location description 132 at the date 134. The geographical
15 boundaries, in at least some retrieved data items, may be absent from the location description 132 itself (*e.g.*, the location description 132 may identify a neighborhood, parcel, lot, address, or the like). In such a case, the processor 106 may determine the geographical boundaries of the location at the date received at 154 utilizing various techniques. One such technique, for example, may involve
20 comparing the location information with location information which may be stored in the integrated database 102, or in any other accessible database. For example, if the received location description 132 is a particular neighborhood in the city of Seattle, at block 156, the processor 106 may reference a Seattle neighborhood database (which may be a publicly-accessible database) to determine the streets
25 or blocks which define a boundary for that neighborhood at the date received at block 154. Because property boundaries often change over time (*e.g.*, neighborhoods, lots, census-defined areas, voting districts and the like), determining the geographical boundaries of the location description at the date, at

block 156, enables accurate associations between the location description 132 and the date 134.

At block 158, the processor 106 converts the geographical boundaries determined at block 156 into ranges of associated geocoded
5 coordinates (*i.e.*, latitude and longitude). This may be accomplished, in some embodiments, by referencing one or more maps containing geocoded coordinates. For example, a city map or a street map may be superimposed onto a geocoding map containing latitude and longitude coordinates, and the processor 106 may thus determine the geocoded coordinates which correspond to the boundaries
10 (*e.g.*, street boundaries, parcel boundaries, etc.) which were determined at block 156.

At block 160, the determined geocoded coordinates associated with the location description 132 and date 134 are added to the data item 410. The updated data item 410 may thus be stored in the integrated database 102.

15 Figure 5 is a flowchart illustrating a process 440 for associating one or more categories 146 to a data item 410. At block 170, the process includes receiving a data item 410. The data item 410 may be received by the processor 106, and may be received from a web crawler 108, image crawler 110, data feeds 112 and/or update sources 114, any of which may have retrieved the data item
20 410 from data sources 116.

At block 172, the processor 106 analyzes the data item 410 to determine one or more applicable categories 146 to which the data item 410 pertains or should be associated with. The processor 106 may employ various techniques for analyzing and determining applicable categories. For example, the
25 processor 106 may analyze the information 130 and/or location description 132 included in the received data item 410, which may include, for example, textual information describing the location. The processor 106 may utilize any textual or other information processing techniques, including for example heuristic processes, to determine one or more categories 146 relevant to the data item 410.

The processor 106 may access a categories database, which may be included in or otherwise accessible to the integrated database 102, to determine one or more categories 146 relevant to the data item 410. Examples of such categories include, but are not limited to, insurance underwriting, insurance claims, tax
5 information, property characteristics, crime, demographics, weather events, and so on.

At block 174, the applicable categories 146 are added to the data item 410. The updated data item 410 may thus be stored in the integrated database 102, along with the associated category 146 information.

10 In some embodiments, "location information" refers not only to a specific latitude and longitude, but additionally includes vertical or Z-axis information (e.g., indicating a height above or a depth below the surface of the earth).

User Interface / Types of Queries

15 Referring again to the block diagram 400 of Figure 1, property information contained in the integrated database 102 may be accessed by one or more users via a graphical user interface 120.

Integrated database 102 includes data items having particular location information (as discussed above), such that each of the data items are
20 associated with a particular point on the earth, effectively making up a "globe" 104, or map of locations, with each information item being linked to one or more particular locations on the globe 104 or map.

Queries 118 may be received by the integrated database 102 from one or more user computer systems. The queries 118 may be provided by users
25 through the user interface 120, and may be provided in a variety of forms. For example, a query 118 may be provided by inputting location information (e.g., latitude/longitude) and querying for all information associated with that particular point on the earth. Alternatively, the query 118 may specify particular types of

information associated with the particular point on the earth to be returned, such as, for example, only insurance-related information, property zoning information, weather-related information, and so on.

5 The query 118 may specify a property location of interest by directly inputting location information, or by selecting a particular point on a map provided by the user interface 120 (e.g., the "X" shown in Figure 1), or by selecting an area within the map (e.g., the area shown within the dotted lines in Figure 1). An area within the map may be selected by, for example, a drawing tool provided through the user interface 120 which allows a user to draw polygons or various other
10 shapes. Further, queries 118 may include Z-axis information (*i.e.*, location information in a vertical direction). For example, a user may provide a query 118 to the integrated database 102 that specifies a particular latitude and longitude, and further specifies a depth or height of 10 meters to 100 meters. In such a case, the integrated database 102 will display all matching information to the user via the
15 user interface 120.

The geographic location of a particular point can be described a number of ways. Generally, a latitude and longitude are more than sufficient to specify the particular location of an item. Latitudes and longitudes can have a number of decimal points specified that provide information regarding degrees,
20 minutes, seconds, and subparts of seconds, as well as decimal degrees with a number points. The number of decimal points or subparts of seconds that a latitude or longitude specifies will reduce the geographic area of the point under consideration. For example, a latitude that is specified exactly in degrees, minutes, and seconds will be a fairly large area of land. For example, one minute
25 equals the width of somewhat less than a mile, approximately .91 miles and one second equals approximately a width of 80 feet. A measure of latitude and longitude in seconds thus covers a point on the earth that is about 640 square feet. If a more precise location is to be identified, which is frequently the case, the latitude and longitude can be specified in fractions of a second or in the decimal

format which can specify locations of particular points in the range of one square foot, a quarter of a square foot, or smaller.

In such a reference plane, latitude is generally considered an X data point and longitude a Y data point. Thus, with longitude and latitude acting as an X and Y reference grid, respectively, any particular location on the surface of the earth can be defined with a high degree of accuracy. For some locations, and some events, it may be desired to also provide a height or depth reference, which will be referred to herein as the Z axis. A plus Z represents a height above the surface of the earth and a minus Z represents a depth below the surface of the earth. Thus, the third floor of a building may have the same X and Y coordinates as the second and first floors of that building, but would have a different Z reference. Given the large number of apartment complexes, high-rise office buildings, and other events that may happen at various heights above the surface of the earth, the option to include a Z axis height provides significant benefits and a further ability to define the exact location of a particular event or data. Some events may also be a negative Z, such as may occur in mine shafts, the bottom of a lake, or some other location which is below the local surface of the earth at that point.

The references as provided herein to latitude and longitude refer to the surface of the earth at that particular geographic location. Thus, a longitude and latitude geographic location in with a high altitude, such as Denver or Breckenridge, would not include within it a Z axis measure if it were referring to the land that was at the surface of the earth at that location. Rather, the Z axis is for including a reference to an event or data that is above or below the local surface of the geographic earth surface feature at that location which may be either a ground or water, such as a lake, river, stream, or ocean.

In response to queries 118, the integrated database 102 may provide the relevant data overlaid on a map in the user interface 120. The data may include, for example, any data items 410 stored in the integrated database 102

having a location corresponding to a location provided by the query 118. Further, the user interface 120 may provide users an option to display only a particular type of data items 410, based on category 146 or the like. For example, a user of the user interface 120 may select to display only crime data, demographic data, school
5 data, insurance data or so on.

The user interface 120 may further include a time scale 122, which allows a user to select (e.g., by moving a slider 122a) a particular time or range of times of interest. The time scale 122 may allow users to query 118 the integrated database 102 for information associated with particular points on the earth at any
10 time, including decades, years, months, weeks, etc.

In one or more embodiments, users may query the system by identifying one or more points on the earth to receive information associated with those points, or may query the system by identifying information parameters to receive points on the earth associated with that information. Example queries
15 include: do an address and a geolocation coordinate refer to the same parcel or spot? What demographics are associated with a point on the earth? What is the entire property history of a particular point? What is the current tax information for the parcel associated with this point? What building or construction permits have ever been issued for any parcel associated with this point of land? Who has ever
20 held title to the land? Who has ever leased the land? In what areas of a county is the crime rate above 5%?

The system would also be valuable for insurance carriers. For example, for underwriters, what is the insurance claim history for properties at this location? Is there evidence of a land depression filled up around this location?
25 Have there ever been floods at this location? What is the grade of the earth at this point? Have oil tanks ever been buried close to this location, or have oil lines fed this location at any time in the past? Do structures near this location exhibit evidence of moss buildup or other evidence of lack of upkeep?

In one or more embodiments, the data aggregation system may be queried using a structured query language, or queries 118 may be generated through the graphical user interface 120.

Computing System

5 FIG. 6 is a block diagram 450 showing a computing system 600 for managing and providing access to the integrated centralized property database 102, according to one or more embodiments.

 The computing system 600 may include one or more distributed computing systems. In addition, each block shown may represent one or more
10 such blocks as appropriate to a specific embodiment, or may be combined with other blocks. Moreover, in one example embodiment, the various components of a data aggregation system 614 may physically reside on one or more machines, which use standard inter-process communication mechanisms (e.g., TCP/IP) to communicate with each other. Further, the data aggregation system 614 may be
15 implemented in software, hardware, firmware, or in any combination thereof to achieve the capabilities described herein.

 In the embodiment shown, the computing system 600 includes a computer memory ("memory") 602, a display 604, one or more Central Processing Units ("CPU") 606, Input/Output devices 608 (e.g., keyboard, mouse, joystick, track
20 pad, CRT or LCD display, and the like), other computer-readable media 610, and network connections 612. A data aggregation system 614 is shown residing in the memory 602. In other embodiments, some portion of the contents or some or all of the components of the data aggregation system 614 may be stored on and/or transmitted over the other computer-readable media 610. The components of the
25 data aggregation system 614 preferably execute on one or more CPUs 606 and generate data items 410, determine relevant geocoding 140, and categorize data 138, as described herein. Other code or programs 616 (e.g., a Web server, a database management system, and the like) and potentially other data

repositories, such as data repository 618 (which may include, for example, a globe 104 or map including associated geocoding information), may also reside in the memory 602 or may otherwise be accessible to the data aggregation system 614, and preferably execute on one or more CPUs 606. All of the components in Figure 5 6 may not be required for each implementation. Some inputs to the data aggregation system 614 may be automatically generated and/or provided (e.g., inputs from web crawlers 108, image crawlers 110, data feeds 112, etc.), but other inputs may be entered manually to supplement data acquired through automated means.

10 As shown in Figure 6, the data aggregation system 614 may include a data acquisition engine 620; a data management engine 622; a geocoding engine 624 and categorization engine 626 within, or as part of, the data management engine 622; an interface engine 628; and an integrated centralized property database 102.

15 The data acquisition engine 620 performs at least some of the functions described herein, with respect to the processes described herein. In particular, the data acquisition engine 620 interacts with the data sources 116 to obtain data items 410, or information associated with particular points on the earth, and provides such information to the data management engine 622 for further 20 processing.

 The data management engine 622 performs at least some of the functions described herein. In particular, the data management engine 622 receives data items 410 obtained by the data acquisition engine 620, adds category information to the data item 410 (e.g., as shown and described with 25 respect to Figure 3, herein) by the categorization engine 626, and determines and adds relevant geocoding (e.g., as shown and described with respect to Figure 4, herein) by the geocoding engine 624.

 The data management engine 622, after processing obtained data items 410 as described herein, provides the data items to the integrated

centralized property database 102 for storage and retrieval in response to user queries 118.

In addition, the data aggregation system 614 interacts via a communications network 632 with data source computing systems 634 and/or one
5 or more user computing systems 638. Communications network 632 may utilize one or more protocols to communicate via one or more physical networks, including local area networks, wireless networks, dedicated lines, intranets, the Internet, and the like.

User computing systems 638 may be computer systems utilized by
10 any user of the data aggregation system 614, including, for example, insurance companies, real estate professionals, builders, parties interested in conducting property transactions, and so on.

The data acquisition engine 620 may obtain data items 410, for example, through communication via communications network 632 with data
15 source computing systems 634. Users may utilize one or more user computing systems 638 to access the data aggregation system 614 and query the integrated centralized property database 102, for example, via the user interface 120.

The various embodiments described above can be combined to provide further embodiments. These and other changes can be made to the
20 embodiments in light of the above-detailed description. In general, in the following claims, the terms used should not be construed to limit the claims to the specific embodiments disclosed in the specification and the claims, but should be construed to include all possible embodiments along with the full scope of equivalents to which such claims are entitled. Accordingly, the claims are not
25 limited by the disclosure.

CLAIMS

1. A method, comprising:
storing a plurality of data items in a data aggregation system, each of the plurality of data items being associated with one or more location identifiers of a particular geographic point on earth;
receiving, by at least one processor, a query regarding a geographic location;
retrieving, from the data aggregation system, data items having associated location identifiers matching the received geographic location; and
outputting the retrieved data items.
2. The method of claim 1, wherein the one or more location identifiers include latitude and longitude coordinates of a surface of the earth.
3. The method of claim 2, wherein the one or more location identifiers further include at least one of a height above or a depth below the surface of the earth.
4. The method of claim 1, wherein the received geographic location includes a region on the earth.
5. The method of claim 4, wherein the region on the earth is identified by multiple geocoded locations, the multiple geocoded locations described in at least latitude and longitude coordinates.

6. The method of claim 1, wherein at least a portion of the plurality of data items stored in the data aggregation system are further associated with one or more time identifiers, the method further comprising:

receiving, by the at least one processor, a query regarding time information,

wherein retrieving from the data aggregation system further includes retrieving data items having associated time identifiers matching the received time information.

7. The method of claim 6, wherein the time information includes one or more time periods.

8. The method of claim 1, wherein the one or more location identifiers include content external to the data aggregation system.

9. The method of claim 1, wherein the stored data items include at least one of: tax data, building code data, weather data, insurance data, crime data, survey data, school data, demographic data and property data.

10. A system, comprising:

a computer processor;

a memory coupled to the processor; and

an integrated centralized property database, the processor being configured to:

receive from a user computer a query including a location identifier, the location identifier including one of a geocoded location and multiple geocoded locations identifying a polygon,

receive from the user computer a time period identifier,

retrieve from the integrated centralized property database location data, the location data including data associated with the location identifier of a geographic location on the earth, and
provide the retrieved location data to the user computer via a graphical user interface.

11. The system of claim 10, the processor further configured to:
receive from the user computer a time period identifier; and
retrieve from the integrated centralized property database location data, the location data including data associated with the location identifier and the received time period identifier.

12. The system of claim 10, the processor further configured to:
retrieve parcel information from the integrated centralized property database;
compare the retrieved parcel information with the location data to determine parcels associated with the location identifier; and
output the parcels associated with the location identifier.

13. The system of claim 12, the processor further configured to:
retrieve insurance policy information from the integrated centralized property database;
compare the retrieved insurance policy information with the parcels associated with the location identifier to determine the insurance policies associated with the location identifier; and
output the insurance policies associated with the location identifier.

14. A system, comprising:

an integrated centralized property database stored on computer-readable storage media, the integrated centralized property database including a plurality of data items, each of the plurality of data items being associated with one or more location identifiers indicating a particular geographic point on earth;

at least one computer processor communicatively coupled with the integrated centralized property database, the at least one computer processor configured to:

receive, from a user computer system, a query of a geographic location;

retrieve, from the integrated centralized property database, data items having associated location identifiers matching the received geographic location; and

provide the retrieved data items to the user computer system via a graphical user interface.

15. The system of claim 14, wherein the one or more location identifiers include latitude and longitude coordinates.

16. The system of claim 15, wherein the one or more location identifiers further include Z-axis coordinates.

17. The system of claim 14, wherein at least a portion of the plurality of data items in the integrated centralized property database are further associated with one or more time identifiers, the processor being further configured to:

receive time information indicated in the query; and

retrieve, from the integrated centralized property database, data items having associated time identifiers matching the received time information.

18. The system of claim 17, wherein the time identifier includes one or more time periods.

19. The system of claim 14, wherein the one or more location identifiers are associated with content external to the system.

20. The system of claim 14, wherein the stored data items include at least one of: tax data, building code data, weather data, insurance data, crime data, survey data, school data, demographic data and property data.

21. A system, comprising:
means for storing a plurality of data items in a data aggregation system, each of the plurality of data items being associated with one or more location identifiers indicating a particular geographic point on earth;
means for receiving a query regarding a geographic location;
means for retrieving data items having associated location identifiers matching the received geographic location; and
means for outputting the retrieved data items.

ABSTRACT OF THE DISCLOSURE

A method is provided that includes storing a plurality of data items in a data aggregation system. Each of the plurality of data items is associated with one or more location identifiers indicating a particular point on the earth. The method further includes receiving, by at least one processor, a query indicating a geographic location. Data items having associated location identifiers matching the received geographic location are retrieved from the data aggregation system. The method further includes outputting the retrieved data items.

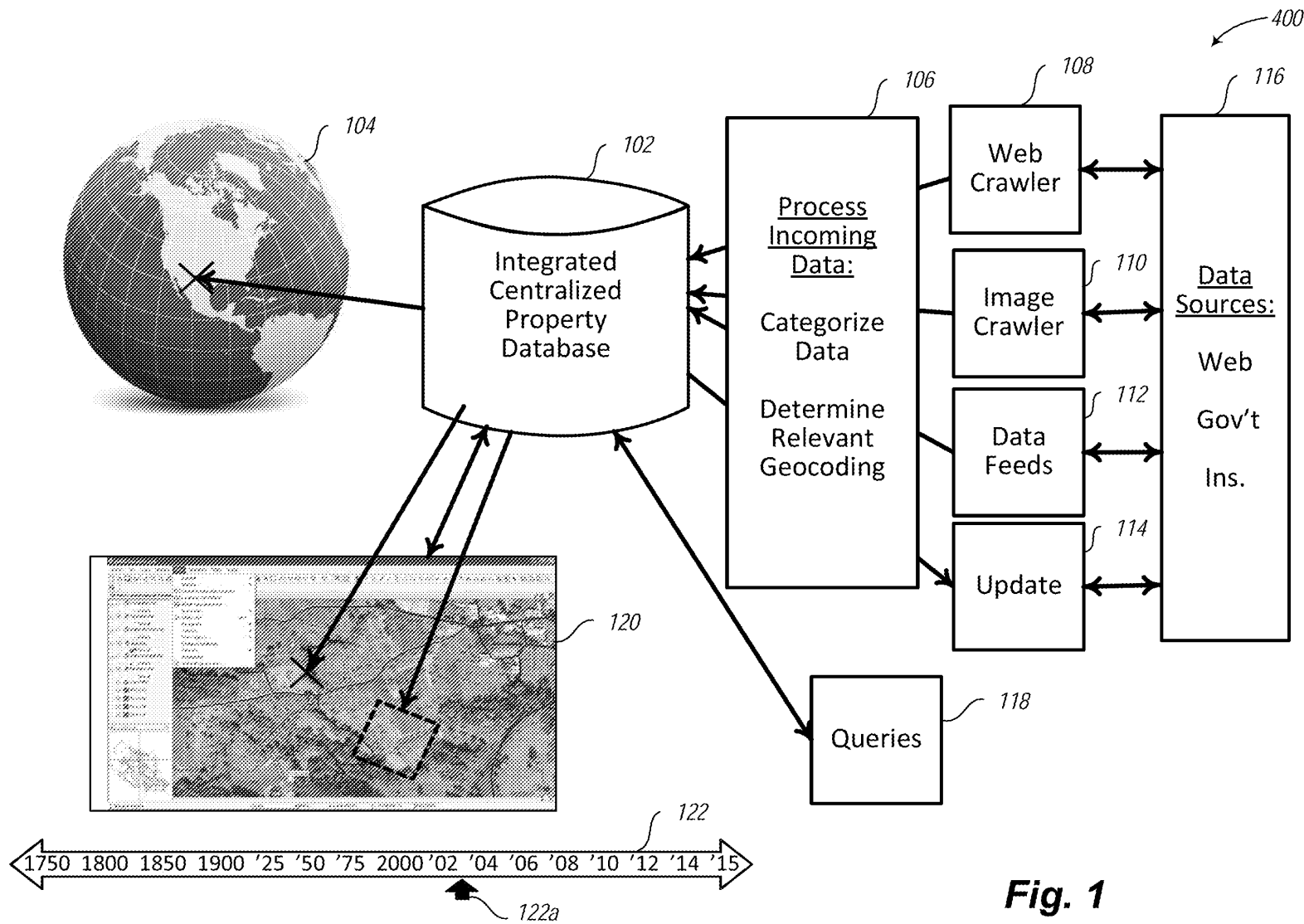


Fig. 1

410

Data - Item

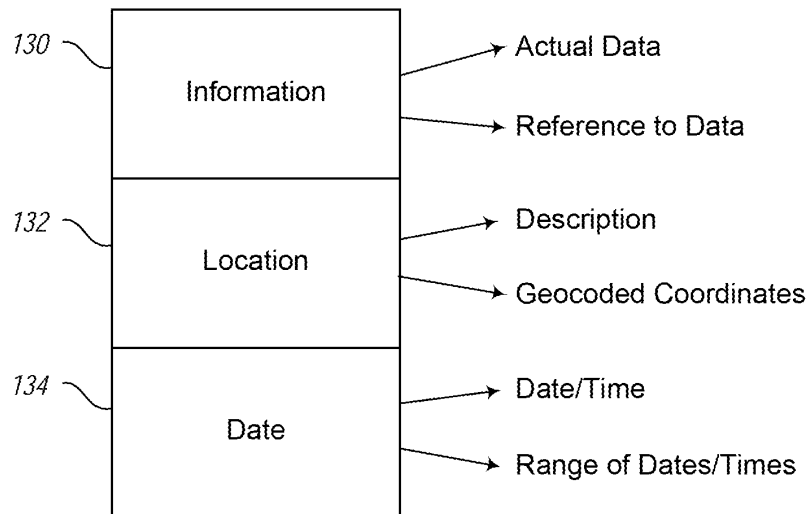


Fig. 2

Adding Geocoding and Category to a Data-Item

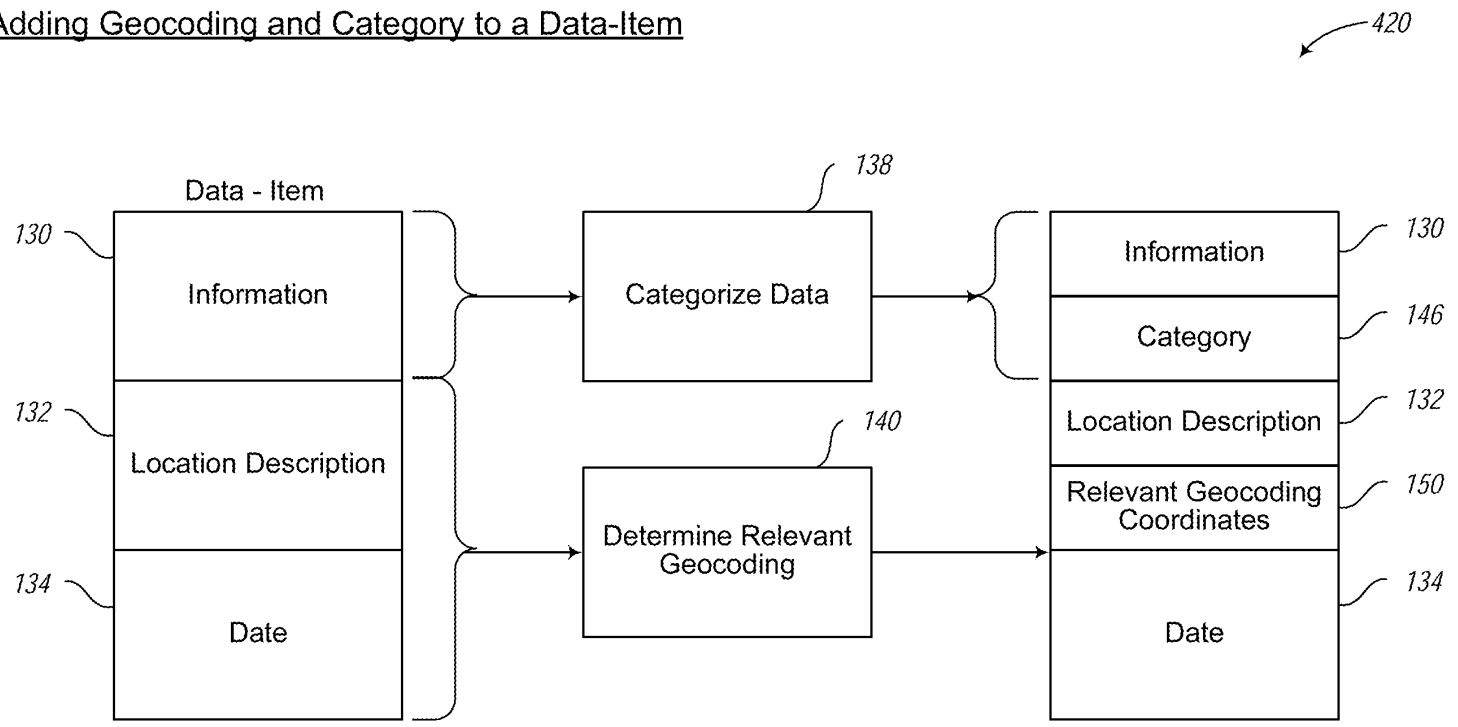


Fig. 3

Determine Relevant Geocoding

430

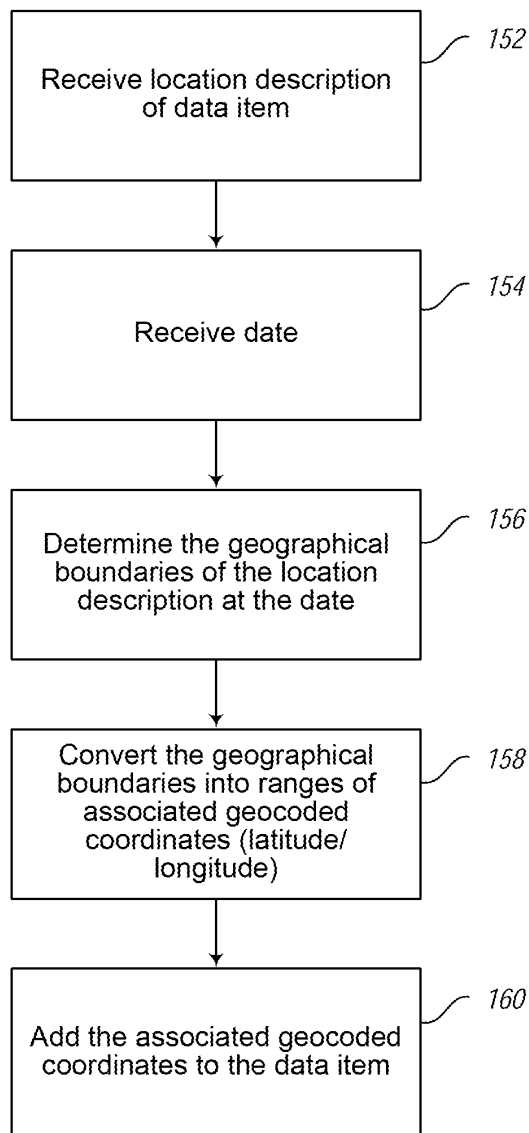


Fig. 4

Categorize Data

440

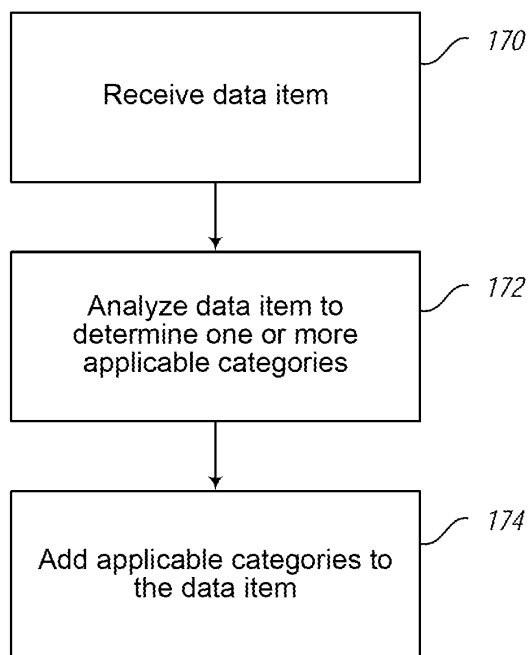


Fig. 5

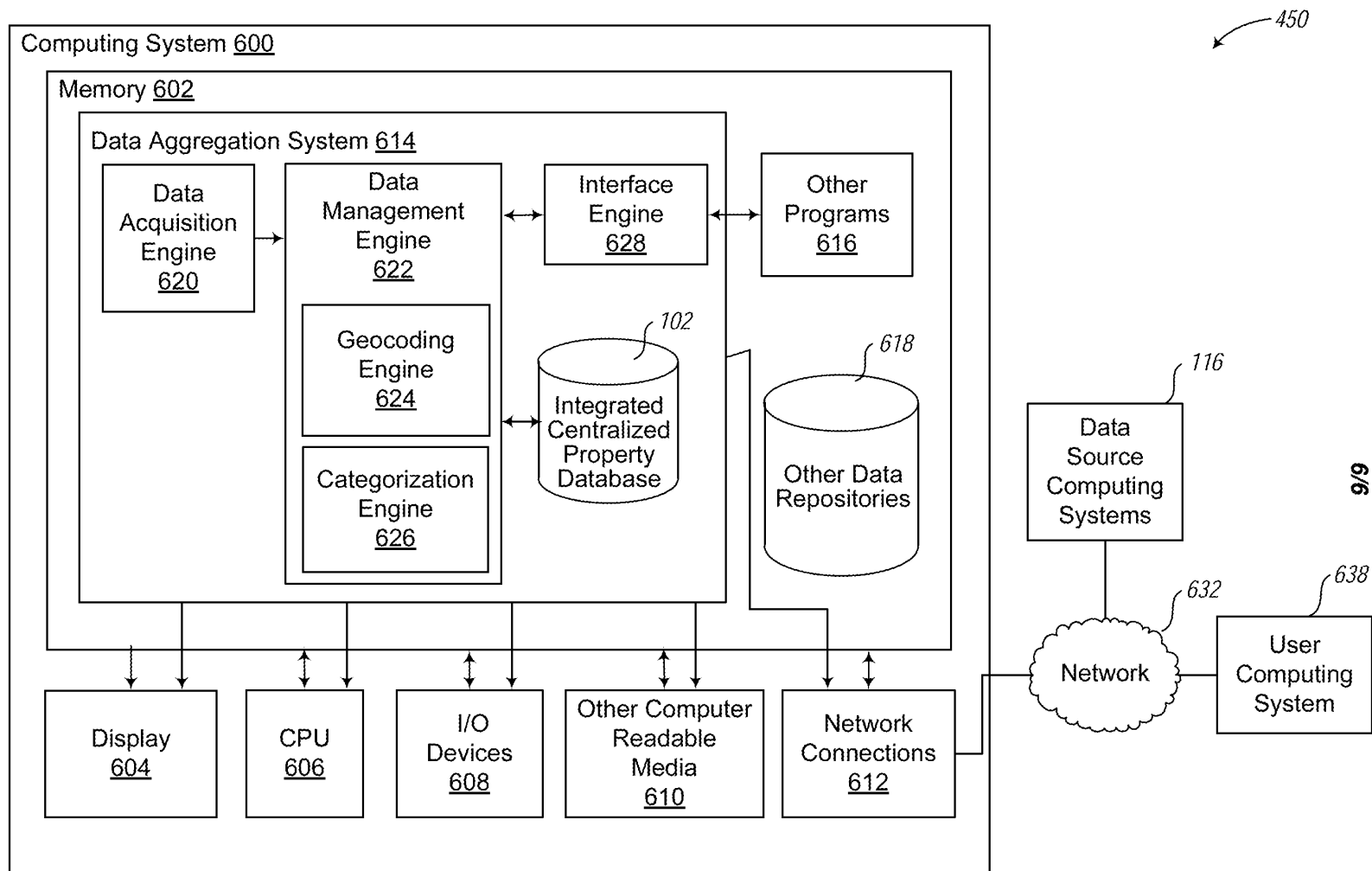
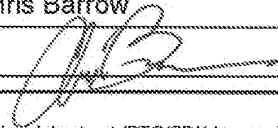


Fig. 6

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.

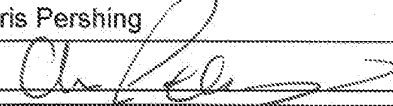
DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76)

Title of Invention	INTEGRATED CENTRALIZED PROPERTY DATABASE SYSTEMS AND METHODS
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: Chris Barrow Date (Optional): _____ Signature:  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.

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

Title of Invention	INTEGRATED CENTRALIZED PROPERTY DATABASE SYSTEMS AND METHODS
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: <u>Chris Pershing</u> Date (Optional): <u>2/11/16</u> Signature: <u></u>	
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.

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

Title of Invention	INTEGRATED CENTRALIZED PROPERTY DATABASE SYSTEMS AND METHODS
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: <u>David Kinsman</u> Date (Optional): <u>1-25-16</u> Signature: <u><i>David Kinsman</i></u> 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.

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SCORE Placeholder Sheet for IFW Content

Application Number: 15049595

Document Date: 02/22/2016

The presence of this form in the IFW record indicates that the following document type was received in electronic format on the date identified above. This content is stored in the SCORE database.

- Drawings – Other than Black and White Line Drawings

Since this was an electronic submission, there is no physical artifact folder, no artifact folder is recorded in PALM, and no paper documents or physical media exist. The TIFF images in the IFW record were created from the original documents that are stored in SCORE.

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- Examiners may access SCORE content via the eDAN interface.
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Form Revision Date: September 30, 2013



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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
15/049,595	02/22/2016	2827	2100	290115.425	21	4

CONFIRMATION NO. 2683

FILING RECEIPT



000000081218007

500
SEED INTELLECTUAL PROPERTY LAW GROUP PLLC
701 FIFTH AVE
SUITE 5400
SEATTLE, WA 98104

Date Mailed: 03/08/2016

Receipt is acknowledged of this non-provisional patent application. The application will be taken up for examination in due course. Applicant will be notified as to the results of the examination. Any correspondence concerning the application must include the following identification information: the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. **If an error is noted on this Filing Receipt, please submit a written request for a Filing Receipt Correction. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections**

Inventor(s)

Chris Barrow, Woodinville, WA;
Chris Pershing, Redmond, WA;
David Kinsman, Woodinville, WA;

Applicant(s)

Eagle View Technologies, Inc., Bothell, WA;

Power of Attorney: The patent practitioners associated with Customer Number 00500

Domestic Applications for which benefit is claimed - None.

A proper domestic benefit claim must be provided in an Application Data Sheet in order to constitute a claim for domestic benefit. See 37 CFR 1.76 and 1.78.

Foreign Applications for which priority is claimed (You may be eligible to benefit from the Patent Prosecution Highway program at the USPTO. Please see <http://www.uspto.gov> for more information.) - None.

Foreign application information must be provided in an Application Data Sheet in order to constitute a claim to foreign priority. See 37 CFR 1.55 and 1.76.

Permission to Access Application via Priority Document Exchange: Yes

Permission to Access Search Results: Yes

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

If Required, Foreign Filing License Granted: 03/07/2016

page 1 of 3

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 15/049,595**

Projected Publication Date: 08/24/2017

Non-Publication Request: No

Early Publication Request: No

Title

INTEGRATED CENTRALIZED PROPERTY DATABASE SYSTEMS AND METHODS

Preliminary Class

365

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.

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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).

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Title 35, United States Code, Section 184
Title 37, Code of Federal Regulations, 5.11 & 5.15

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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

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PATENT APPLICATION FEE DETERMINATION RECORD						Application or Docket Number 15/049,595	
Substitute for Form PTO-875							

APPLICATION AS FILED - PART I								
(Column 1)		(Column 2)		SMALL ENTITY		OR	OTHER THAN SMALL ENTITY	
FOR	NUMBER FILED	NUMBER EXTRA		RATE(\$)	FEE(\$)		RATE(\$)	FEE(\$)
BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A		N/A			N/A	280
SEARCH FEE (37 CFR 1.16(k), (l), or (m))	N/A	N/A		N/A			N/A	600
EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A		N/A			N/A	720
TOTAL CLAIMS (37 CFR 1.16(i))	21	minus 20 =	*	1			x 80 =	80
INDEPENDENT CLAIMS (37 CFR 1.16(h))	4	minus 3 =	*	1			x 420 =	420
APPLICATION SIZE FEE (37 CFR 1.16(s))	If the specification and drawings exceed 100 sheets of paper, the application size fee due is \$310 (\$155 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).							0.00
MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))								0.00
* If the difference in column 1 is less than zero, enter "0" in column 2.						TOTAL		TOTAL 2100

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	=		x	=
	Independent (37 CFR 1.16(h))	*	Minus	***	=	x	=		x	=
	Application Size Fee (37 CFR 1.16(s))									
	FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))									
						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	=		x	=
	Independent (37 CFR 1.16(h))	*	Minus	***	=	x	=		x	=
	Application Size Fee (37 CFR 1.16(s))									
	FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))									
						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.



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	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
15/049,595	02/22/2016	Chris Barrow	290115.425

CONFIRMATION NO. 2683

500
SEED INTELLECTUAL PROPERTY LAW GROUP LLP
701 FIFTH AVE
SUITE 5400
SEATTLE, WA 98104

PUBLICATION NOTICE



0000000093666829

Title:INTEGRATED CENTRALIZED PROPERTY DATABASE SYSTEMS AND METHODS

Publication No.US-2017-0242873-A1

Publication Date:08/24/2017

NOTICE OF PUBLICATION OF APPLICATION

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

The publication may be accessed through the USPTO's publicly 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 Public Records Division. The Public Records Division can be reached by telephone at (571) 272-3150 or (800) 972-6382, by facsimile at (571) 273-3250, by mail addressed to the United States Patent and Trademark Office, Public Records Division, 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 <https://portal.uspto.gov/pair/PublicPair>. 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

POWER OF ATTORNEY TO PROSECUTE APPLICATIONS BEFORE THE USPTO

I hereby revoke all previous powers of attorney given in the application identified in the attached statement under 37 CFR 3.73(c).

I hereby appoint



Practitioners associated with Customer Number:

30589

OR



Practitioner(s) named below (if more than ten patent practitioners are to be named, then a customer number must be used):

Name	Registration Number

Name	Registration Number

As attorney(s) or agent(s) to represent the undersigned before the United States Patent and Trademark Office (USPTO) in connection with any and all patent applications assigned only to the undersigned according to the USPTO assignment records or assignments documents attached to this form in accordance with 37 CFR 3.73(c).

Please change the correspondence address for the application identified in the attached statement under 37 CFR 3.73(c) to:



The address associated with Customer Number:

30589

OR

☐	Firm or Individual Name	DUNLAP CODDING, P.C.		
	Address	P.O. Box 16370		
	City	Oklahoma City	State OK	Zip 73113
	Country	US		
	Telephone	405-607-8600	Email	mbrockhaus@dunlapcoddng.com

Assignee Name and Address: Eagle View Technologies, Inc.
3700 Monte Villa Pkwy, Ste 200
Bohett, WA 98021

A copy of this form, together with a statement under 37 CFR 3.73(c) (Form PTO/AIA/96 or equivalent) is required to be filed in each application in which this form is used. The statement under 37 CFR 3.73(c) may be completed by one of The practitioners appointed in this form, and must identify the application in which this Power of Attorney is to be filed.

SIGNATURE of Assignee of Record

This individual whose signature and title is supplied below is authorized to act on behalf of the assignee

Signature		Date	November 11, 2014
Name	Richard Jacobs	Telephone	
Title	Assistant Secretary, Eagle View Technologies, Inc.		

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.

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Electronic Acknowledgement Receipt	
EFS ID:	30366952
Application Number:	15049595
International Application Number:	
Confirmation Number:	2683
Title of Invention:	INTEGRATED CENTRALIZED PROPERTY DATABASE SYSTEMS AND METHODS
First Named Inventor/Applicant Name:	Chris Barrow
Customer Number:	500
Filer:	Ann M. Robl/Ashley Morales
Filer Authorized By:	Ann M. Robl
Attorney Docket Number:	290115.425
Receipt Date:	14-SEP-2017
Filing Date:	22-FEB-2016
Time Stamp:	15:31:14
Application Type:	Utility under 35 USC 111(a)

Payment information:

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

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Transmittal Letter	6339093_sb21TransmittalForm_POA_Stmt_AmendedADS.pdf	61501	no	1
			53bfcba73d5602d0cd8b77edfd974c5e15ade12		

Warnings:

Information:					
2	Assignee showing of ownership per 37 CFR 3.73	6339093_Statement.pdf	98410	no	2
			6900e4ec523aba3768123c4cf4fcd78ff540a		
Warnings:					
Information:					
3	Application Data Sheet	6339093_AmendedADS.pdf	405571	no	8
			c762ea03a7a864f906325bb4bd7b508f0e722345		
Warnings:					
Information:					
This is not an USPTO supplied ADS fillable form					
4	Power of Attorney	6339093_POASIGNED.PDF	648460	no	1
			5dc174ebc4db046e60e7a97078bf01df711c863		
Warnings:					
Information:					
Total Files Size (in bytes):			1213942		
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.					

Doc Code: TRAN.LET

Document Description: Transmittal Letter

PTO/SB/21 (07-09)

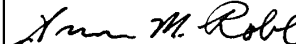
Approved for use through 07/31/2012. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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TRANSMITTAL FORM (to be used for all correspondence after initial filing)	Application Number	15/049,595	
	Filing Date	02/22/2016	
	First Named Inventor	Chris Barrow	
	Art Unit	2152	
	Examiner Name	Abel Jalil, Neveen	
Total Number of Pages in This Submission	12	Attorney Docket Number	6339.093

ENCLOSURES (Check all that apply)		
☐ Fee Transmittal Form ☐ Fee Attached ☐ Amendment/Reply ☐ After Final ☐ Affidavits/declaration(s) ☐ Extension of Time Request ☐ Express Abandonment Request ☐ Information Disclosure Statement ☐ Certified Copy of Priority Document(s) ☐ Reply to Missing Parts/ Incomplete Application ☐ Reply to Missing Parts under 37 CFR 1.52 or 1.53	☐ Drawing(s) ☐ Licensing-related Papers ☐ Petition ☐ Petition to Convert to a Provisional Application ☒ Power of Attorney, Revocation Change of Correspondence Address ☐ Terminal Disclaimer ☐ Request for Refund ☐ CD, Number of CD(s) _____ ☐ Landscape Table on CD	☐ After Allowance Communication to TC ☐ Appeal Communication to Board of Appeals and Interferences ☐ Appeal Communication to TC (Appeal Notice, Brief, Reply Brief) ☐ Proprietary Information ☐ Status Letter ☒ Other Enclosure(s) (please identify below): See Remarks
Remarks ELECTRONICALLY TRANSMITTED: 1. SB21 Transmittal Form (1 pg); 2. Statement (2 pgs); 3. Amended Application Data Sheet (8 pgs); and 4. Power of Attorney (1 pg).		
SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT		
Firm Name	DUNLAP CODDING, P.C.	
Signature		
Printed name	Ann M. Robl	
Date	09/14/2017	Reg. No. 71,541

CERTIFICATE OF TRANSMISSION/MAILING	
I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below:	
Signature	
Typed or printed name	Ann M. Robl
Date	71,541

This collection of information is required by 37 CFR 1.5. 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 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, 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.

STATEMENT UNDER 37 CFR 3.73(c)Applicant/Patent Owner: Chris Barrow, Chris Pershing and David KinsmanApplication No./Patent No.: 15/049,595 Filed/Issue Date: February 22, 2016Titled: INTEGRATED CENTRALIZED PROPERTY DATABASE SYSTEMS AND METHODSEagle View Technologies, Inc., a Corporation

(Name of Assignee)

(Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

states that, for the patent application/patent identified above, it is (choose one of options 1, 2, 3 or 4 below):

1. ☒ The assignee of the entire right, title, and interest.
2. ☐ An assignee of less than the entire right, title, and interest (check applicable box):
- ☐ The extent (by percentage) of its ownership interest is _____. Additional Statement(s) by the owners holding the balance of the interest must be submitted to account for 100% of the ownership interest.
- ☐ There are unspecified percentages of ownership. The other parties, including inventors, who together own the entire right, title and interest are:

Additional Statement(s) by the owner(s) holding the balance of the interest must be submitted to account for the entire right, title, and interest.

3. ☐ The assignee of an undivided interest in the entirety (a complete assignment from one of the joint inventors was made). The other parties, including inventors, who together own the entire right, title, and interest are:

Additional Statement(s) by the owner(s) holding the balance of the interest must be submitted to account for the entire right, title, and interest.

4. ☐ The recipient, via a court proceeding or the like (e.g., bankruptcy, probate), of an undivided interest in the entirety (a complete transfer of ownership interest was made). The certified document(s) showing the transfer is attached.

The interest identified in option 1, 2 or 3 above (not option 4) is evidenced by either (choose one of options A or B below):

- A. ☒ An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office at Reel 037789, Frame 0227, or for which a copy thereof is attached.
- B. ☐ A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as follows:

1. From: _____ To: _____

The document was recorded in the United States Patent and Trademark Office at
Reel _____, Frame _____, or for which a copy thereof is attached.

2. From: _____ To: _____

The document was recorded in the United States Patent and Trademark Office at
Reel _____, Frame _____, or for which a copy thereof is attached.

[Page 1 of 2]

This collection of information is required by 37 CFR 3.73(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

STATEMENT UNDER 37 CFR 3.73(c)

3. From: _____ To: _____

The document was recorded in the United States Patent and Trademark Office at
Reel _____, Frame _____, or for which a copy thereof is attached.

4. From: _____ To: _____

The document was recorded in the United States Patent and Trademark Office at
Reel _____, Frame _____, or for which a copy thereof is attached.

5. From: _____ To: _____

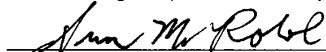
The document was recorded in the United States Patent and Trademark Office at
Reel _____, Frame _____, or for which a copy thereof is attached.

6. From: _____ To: _____

The document was recorded in the United States Patent and Trademark Office at
Reel _____, Frame _____, or for which a copy thereof is attached.☐ Additional documents in the chain of title are listed on a supplemental sheet(s).☐ As required by 37 CFR 3.73(c)(1)(i), the documentary evidence of the chain of title from the original owner to the assignee was, or concurrently is being, submitted for recordation pursuant to 37 CFR 3.11.

[NOTE: A separate copy (i.e., a true copy of the original assignment document(s)) must be submitted to Assignment Division in accordance with 37 CFR Part 3, to record the assignment in the records of the USPTO. See MPEP 302.08]

The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.



Signature

09-14-2017

Date

Ann M. Robl

Printed or Typed Name

71,541

Title or Registration Number

[Page 2 of 2]

AMENDED APPLICATION DATA SHEET

PTO/AIA/14 (11-15)
Approved for use through 04/30/2017. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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Application Data Sheet 37 CFR 1.76		Attorney Docket Number	~~290445.425~~ 6339.093
		Application Number	15/049.595
Title of Invention	INTEGRATED CENTRALIZED PROPERTY DATABASE SYSTEMS AND METHODS		
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
		Chris				Barrow				
Residence Information (Select One) • US Residency Non US Residency Active US Military Service										
City	Woodinville			State/Province	WA		Country of Residence	US		
Mailing Address of Inventor:										
Address 1		14241 NE Woodinville Duvall Rd. #211								
Address 2										
City	Woodinville			State/Province	WA					
Postal Code	98072			Country	i		US			
Inventor 2					Remove					
Legal Name										
Prefix	Given Name			Middle Name			Family Name			Suffix
		Chris				Pershing				
Residence Information (Select One) • US Residency Non US Residency Active US Military Service										
City	Redmond			State/Province	WA		Country of Residence	US		
Mailing Address of Inventor:										
Address 1		17401 Northeast 138th Street								
Address 2										
City	Redmond			State/Province	WA					
Postal Code	98052			Country	i		US			
Inventor 3					Remove					
Legal Name										
Prefix	Given Name			Middle Name			Family Name			Suffix
		David				Kinsman				
Residence Information (Select One) • US Residency Non US Residency Active US Military Service										

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	~~290115.425~~ <u>6339.093</u>
		Application Number	<u>15/049,595</u>
Title of Invention	INTEGRATED CENTRALIZED PROPERTY DATABASE SYSTEMS AND METHODS		

City	<u>Woodinville</u>	State/Province	<u>WA</u>	Country of Residence	<u>US</u>
------	--------------------	----------------	-----------	----------------------	-----------

Mailing Address of Inventor:

Address 1	<u>18115 NE 146th Way</u>				
Address 2					
City	<u>Woodinville</u>	State/Province	<u>WA</u>		
Postal Code	<u>98072</u>	Country	<u>US</u>		

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	~~90500~~ <u>30589</u>
Email Address	<u>justinc.docketing@seedip.com</u> <u>mbrockhaus@dunlapcoddling.com</u> Add Email Remove Email

Application Information:

Title of the Invention	<u>INTEGRATED CENTRALIZED PROPERTY DATABASE SYSTEMS AND METHODS</u>		
Attorney Docket Number	~~290115.425~~ <u>6339.093</u>	Small Entity Status Claimed	☐
Application Type	<u>Nonprovisional</u>		
Subject Matter	<u>Utility</u>		
Total Number of Drawing Sheets (if any)	<u>6</u>	Suggested Figure for Publication (if any)	

Filing By Reference:

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

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

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

Publication Information:

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

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

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	~~290115.425~~ <u>6339.093</u>
		Application Number	<u>15/049,595</u>
Title of Invention	INTEGRATED CENTRALIZED PROPERTY DATABASE SYSTEMS AND METHODS		

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	~~30500~~ <u>30589</u>		

Domestic Benefit/National Stage Information:

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

When referring to the current application, please leave the "Application Number" field blank.

Prior Application Status		Remove	
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
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. When priority is claimed to a foreign application that is eligible for retrieval under the priority document exchange program (PDX)¹ the information will be used by the Office to automatically attempt retrieval pursuant to 37 CFR 1.55(i)(1) and (2). Under the PDX program, applicant bears the ultimate responsibility for ensuring that a copy of the foreign application is received by the Office from the participating foreign intellectual property office, or a certified copy of the foreign priority application is filed, within the time period specified in 37 CFR 1.55(g)(1).

Application Number	Country ⁱ	Filing Date (YYYY-MM-DD)	Access Code ^j (if applicable)
Additional Foreign Priority Data may be generated within this form by selecting the Add button.			

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	~~290415.425~~ <u>6339.093</u>
	Application Number	<u>15/049,595</u>
Title of Invention	INTEGRATED CENTRALIZED PROPERTY DATABASE SYSTEMS AND METHODS	

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

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

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	~~290115.425~~ <u>6339.093</u>
	Application Number	<u>15/049,595</u>
Title of Invention	INTEGRATED CENTRALIZED PROPERTY DATABASE SYSTEMS AND METHODS	

Authorization or Opt-Out of Authorization to Permit Access:

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

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

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

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

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

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

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

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

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

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

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

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	~~290115.425~~ <u>6339.093</u>
	Application Number	<u>15/049,595</u>
Title of Invention	INTEGRATED CENTRALIZED PROPERTY DATABASE SYSTEMS AND METHODS	

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	Remove	
If the applicant is the inventor (or the remaining joint inventor or inventors under 37 CFR 1.45), this section should not be completed. The information to be provided in this section is the name and address of the legal representative who is the applicant under 37 CFR 1.43; or the name and address of the assignee, person to whom the inventor is under an obligation to assign the invention, or person who otherwise shows sufficient proprietary interest in the matter who is the applicant under 37 CFR 1.46. If the applicant is an applicant under 37 CFR 1.46 (assignee, person to whom the inventor is obligated to assign, or person who otherwise shows sufficient proprietary interest) together with one or more joint inventors, then the joint inventor or inventors who are also the applicant should be identified in this section.			
		Clear	
☒ Assignee	Legal Representative under 35 U.S.C. 117		Joint Inventor
Person to whom the inventor is obligated to assign.		Person who shows sufficient proprietary interest	
If applicant is the legal representative, indicate the authority to file the patent application, the inventor is:			
Name of the Deceased or Legally Incapacitated Inventor:			
If the Applicant is an Organization check here. ☒			
Organization Name		Eagle View Technologies, Inc.	
Mailing Address Information For Applicant:			
Address 1		3700 Monte Villa Parkway, Suite 200	
Address 2			
City		Bothell	State/Province WA
Country US		Postal Code	98021
Phone Number		Fax Number	
Email Address			
Additional Applicant Data may be generated within this form by selecting the Add button.			Add

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.

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	~~290146.425~~ <u>6339.093</u>
	Application Number	<u>15/049,595</u>
Title of Invention	INTEGRATED CENTRALIZED PROPERTY DATABASE SYSTEMS AND METHODS	

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.				
Remove				
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. Add				

Signature:				Remove	
NOTE: This Application Data Sheet must be signed in accordance with 37 CFR 1.33(b). However, if this Application Data Sheet is submitted with the INITIAL filing of the application and either box A or B is not checked in subsection 2 of the "Authorization or Opt-Out of Authorization to Permit Access" section, then this form must also be signed in accordance with 37 CFR 1.14(c).					
This Application Data Sheet <u>must</u> be signed by a patent practitioner if one or more of the applicants is a juristic entity (e.g., corporation or association). If the applicant is two or more joint inventors, this form must be signed by a patent practitioner, <u>all</u> joint inventors who are the applicant, or one or more joint inventor-applicants who have been given power of attorney (e.g., see USPTO Form PTO/AIA/81) on behalf of <u>all</u> joint inventor-applicants.					
See 37 CFR 1.4(d) for the manner of making signatures and certifications.					
Signature				Date (YYYY-MM-DD)	2017-09-14
First Name	Ann M.	Last Name	Robl	Registration Number	71541
Additional Signature may be generated within this form by selecting the Add button. Add					

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	~~200446.425~~ <u>6339.093</u>
	Application Number	<u>15/049,595</u>
Title of Invention	INTEGRATED CENTRALIZED PROPERTY DATABASE SYSTEMS AND METHODS	

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.**



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
15/049,595	02/22/2016	Chris Barrow	6339.093

30589
DUNLAP CODDING, P.C.
PO BOX 16370
OKLAHOMA CITY, OK 73113

CONFIRMATION NO. 2683
POA ACCEPTANCE LETTER



OC000000094116778

Date Mailed: 09/18/2017

NOTICE OF ACCEPTANCE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 09/14/2017.

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.

/qnguyen/



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
15/049,595	02/22/2016	Chris Barrow	290115.425

CONFIRMATION NO. 2683

POWER OF ATTORNEY NOTICE



OC000000094116745

500
SEED INTELLECTUAL PROPERTY LAW GROUP LLP
701 FIFTH AVE
SUITE 5400
SEATTLE, WA 98104

Date Mailed: 09/18/2017

NOTICE REGARDING CHANGE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 09/14/2017.

- The Power of Attorney to you in this application has been revoked by the applicant. Future correspondence will be mailed to the new address of record(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.

/qnguyen/



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	GRP ART UNIT	FIL FEE REC'D	ATTY. DOCKET NO.	TOT CLAIMS	IND CLAIMS
15/049,595	02/22/2016	2152	2100	6339.093	21	4

CONFIRMATION NO. 2683

CORRECTED FILING RECEIPT



000000094116836

30589
DUNLAP CODDING, P.C.
PO BOX 16370
OKLAHOMA CITY, OK 73113

Date Mailed: 09/18/2017

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)

Chris Barrow, Woodinville, WA;
Chris Pershing, Redmond, WA;
David Kinsman, Woodinville, WA;

Applicant(s)

Eagle View Technologies, Inc., Bothell, WA;

Power of Attorney: The patent practitioners associated with Customer Number 30589

Domestic Applications for which benefit is claimed - None.

A proper domestic benefit claim must be provided in an Application Data Sheet in order to constitute a claim for domestic benefit. See 37 CFR 1.76 and 1.78.

Foreign Applications for which priority is claimed (You may be eligible to benefit from the **Patent Prosecution Highway** program at the USPTO. Please see <http://www.uspto.gov> for more information.) - None.

Foreign application information must be provided in an Application Data Sheet in order to constitute a claim to foreign priority. See 37 CFR 1.55 and 1.76.

Permission to Access Application via Priority Document Exchange: Yes

Permission to Access Search Results: Yes

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

If Required, Foreign Filing License Granted: 03/07/2016

page 1 of 3

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 15/049,595**

Projected Publication Date: Not Applicable

Non-Publication Request: No

Early Publication Request: No

Title

INTEGRATED CENTRALIZED PROPERTY DATABASE SYSTEMS AND METHODS

Preliminary Class

707

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.

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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).

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NOT GRANTED

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
15/049,595	02/22/2016	Chris Barrow	6339.093	2683
30589 7590 06/25/2018 DUNLAP CODDING, P.C. PO BOX 16370 OKLAHOMA CITY, OK 73113			EXAMINER VO, TRUONG V	
			ART UNIT	PAPER NUMBER
			2156	
			NOTIFICATION DATE	DELIVERY MODE
			06/25/2018	ELECTRONIC

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

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

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

docketing@dunlapcoddling.com

Office Action Summary	Application No. 15/049,595	Applicant(s) BARROW ET AL.	
	Examiner TRUONG VO	Art Unit 2156	AIA (First Inventor to File) Status Yes

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

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTHS FROM THE MAILING DATE OF THIS COMMUNICATION.

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

Status

1) ☒ Responsive to communication(s) filed on 2/22/2016.
☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on _____.

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

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

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

Disposition of Claims*

5) ☒ Claim(s) 1-21 is/are pending in the application.
5a) Of the above claim(s) _____ is/are withdrawn from consideration.

6) ☐ Claim(s) _____ is/are allowed.

7) ☒ Claim(s) 1-21 is/are rejected.

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

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

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

Application Papers

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

11) ☒ The drawing(s) filed on 2/22/2016 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

Priority under 35 U.S.C. § 119

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

Certified copies:

a) ☐ All b) ☐ Some** c) ☐ None of the:

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

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

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

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

Attachment(s)

1) ☒ Notice of References Cited (PTO-892)

2) ☒ Information Disclosure Statement(s) (PTO/SB/08a and/or PTO/SB/08b)
Paper No(s)/Mail Date 2/22/2016.

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

4) ☐ Other: _____.

DETAILED ACTION

1. The present application, filed on or after March 16, 2013, is being examined under the first inventor to file provisions of the AIA.
2. This is in response to application 15/049,595 filed on February 22, 2016 in which claims 1-21 are presented for examination.

Status of Claims

3. Claims 1 to 21 are pending, of which claims 1, 10, 14 and 21 are in independent form. Claims 1-21 are rejected under 35 U.S.C. 102(a)(1).

Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(a)(1) the claimed invention was patented, described in a printed publication, or in public use, on sale or otherwise available to the public before the effective filing date of the claimed invention.

5. Claims 1-21 are rejected under 35 U.S.C. 102(a)(1) as being anticipated by Tolman et al. (US 2016/0210326 A1).
6. **Regarding claim 1**, Tolman teaches storing a plurality of data items in a data aggregation system, each of the plurality of data items being associated with one or more location identifiers of a particular geographic point on earth (i.e., portions of data

and/or individual data items may be referenced through an index system that may include a row and/or a column along which each location is referred to with a label that may be made up of one or more text characters that are indicative of the what data items are associated with that location; [0065]).

Tolman teaches receiving, by at least one processor, a query regarding a geographic location (i.e., the geographic location of the query device 100 and/or other identifying information associated with the query device 100, itself, may serve as a proxy for explicit identification of the user of the query device 100 that may be provided by the user of the query device 100; [0076]).

Tolman teaches retrieving, from the data aggregation system, data items having associated location identifiers matching the received geographic location (i.e., the post -aggregation filters used in selecting results of one or more aggregation operations to be included in the new results of performing the new database query may also be identified and combined. By way of example, instructions specifying the selection of the values of one or more averaging, summation and/or other aggregation operation based on the results of comparing numeric values may be gathered together and assembled into a single post -aggregation filter. In so doing, the various operands employed in specifying those post -aggregation filters may be reordered in accordance with one or more canonical rules; [0031]).

Tolman teaches outputting the retrieved data items (i.e., An instruction hash may then be taken of the homogenized form of the query instructions for comparison to one or more instruction hashes taken of homogenized forms of earlier query instructions of

one or more earlier database queries to identify a match thereamong. If such a match is found, then the cached results from the performance of the matching earlier database query may be retrieved from a results cache in less time and using fewer resources than would be required to perform the new database query. A reversal of the homogenization performed on the query instructions may then be performed on the retrieved cached results to generate new results for the new database query; [0025]).

7. **Regarding claim 2**, Tolman teaches wherein the one or more location identifiers include latitude and longitude coordinates of a surface of the earth (i.e., `Lookup property="latitude" externalSource="us.primary.names"/> <Lookup property="longitude";` [0066]).

8. **Regarding claim 3**, Tolman teaches wherein the one or more location identifiers further include at least one of a height above or a depth below the surface of the earth (i.e., By way of example, data from a database of historical data (e.g., historical market data, data from earlier earthquakes, data gathered from earlier vehicular crash tests, etc.) may be used alongside other newer or more current data (e.g., current market activity, measurements of new earthquake tremors, engineering data concerning a proposed vehicle redesigned, etc.) to derive a prediction of what is deemed most likely to occur next (e.g., an important market shift, an expected larger earthquake tremor, a prediction about crash testing the redesigned vehicle, etc.); [0041]).

9. **Regarding claim 4**, Tolman teaches wherein the received geographic location includes a region on the earth (i.e., <BusinessItemFolder label=""> ##STR00002## ##STR00003## ##STR00004## <DataItem name="bi35" xref="REGION"/> <DataItem name="bi47" xref="COST"/> </BusinessItemFolder> </DataSource> </DataSources>; [0061]).

10. **Regarding claim 5**, Tolman teaches wherein the region on the earth is identified by multiple geocoded locations, the multiple geocoded locations described in at least latitude and longitude coordinates (i.e., <GeoInfo geoType="external" coordinateSpace="WGS84"> <Lookup property="latitude" externalSource="us.primary.names"/> <Lookup property="longitude" externalSource="us.primary.names"/> <Lookup property="polygonId" externalSource="us.primary.names"/> <Lookup property="mapId"; [0066]).

11. **Regarding claim 6**, Tolman teaches wherein at least a portion of the plurality of data items stored in the data aggregation system are further associated with one or more time identifiers, the method further comprising: receiving, by the at least one processor, a query regarding time information, wherein retrieving from the data aggregation system further includes retrieving data items having associated time identifiers matching the received time information (i.e., More precisely, the reordering component 5455 may identify each instruction that employs the result of a comparison

between two or more numeric values as the basis for selecting one or more numeric values resulting from one or more aggregation operations performed on the one or more data set portions 333 to become part of the results data 730. The reordering component 5455 may then combine all of the identified ones of such instructions into a single post-aggregate filter where the different comparisons may be combined with one or more AND operators and/or one or more other operators; [0071]).

12. **Regarding claim 7**, Tolman teaches wherein the time information includes one or more time periods (i.e., the updating component 5462 may selectively remove one or more entries in accordance with one or more cache policies to prevent the contents of the results cache 570 from becoming stale. By way of example, entries present within the results cache 570 for more than a predetermined period of time may be removed; [0081]).

13. **Regarding claim 8**, Tolman teaches wherein the one or more location identifiers include content external to the data aggregation system (i.e., More specifically, as depicted, the storage 960 may include one or more of a volatile storage 961 (e.g., solid state storage based on one or more forms of RAM technology), a non-volatile storage 962 (e.g., solid state, ferromagnetic or other storage not requiring a constant provision of electric power to preserve their contents), and a removable media storage 963 (e.g., removable disc or solid state memory card storage by which information may be conveyed between computing devices); [0114]).

14. **Regarding claim 9**, Tolman teaches wherein the stored data items include at least one of: tax data, building code data, weather data, insurance data, crime data, survey data, school data, demographic data and property data (i.e., the performance of a database query may require portions of data to be searched for and retrieved from a relatively large data set stored among multiple storage devices, and may then further require the performance of various filter and/or aggregation calculations on a large quantity of data items to generate the results of the database query. Given the considerable size of many data sets and of the portions of data to be searched for and retrieved from such data sets (e.g., data sets that may be made up of billions of data items and that may be stored across numerous storage devices), performing a database query may entail considerable use of processing, memory, and other resources of multiple devices, as well as considerable use of multiple network connections among those multiple devices; [0026]).

15. **Regarding claims 10-21**. Claim 10-21 are essentially the same as the rejected claims above and rejected for the same reasons as applied hereinabove.

Conclusion

Art Unit: 2156

16. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Truong V. Vo whose telephone number is (571) 272-1796. The examiner can normally be reached on Mon.-Thr. 7:30a.m.-5p.m.. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Alford Kindred can be reached on (571) 272-4037. 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.

June 16, 2018

Truong Van Vo

/Truong V Vo/
Examiner, Art Unit 2156

Notice of References Cited	Application/Control No. 15/049,595	Applicant(s)/Patent Under Reexamination BARROW ET AL.	
	Examiner TRUONG VO	Art Unit 2156	Page 1 of 1

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	CPC Classification	US Classification
*	A	US-2016/0210326 A1	07-2016	TOLMAN; KENNETH	G06F17/30457	1/1
	B	US-				
	C	US-				
	D	US-				
	E	US-				
	F	US-				
	G	US-				
	H	US-				
	I	US-				
	J	US-				
	K	US-				
	L	US-				
	M	US-				

FOREIGN PATENT DOCUMENTS

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

NON-PATENT DOCUMENTS

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

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

Search Notes 	Application/Control No. 15049595	Applicant(s)/Patent Under Reexamination BARROW ET AL.
	Examiner TRUONG VO	Art Unit 2156

CPC- SEARCHED		
Symbol	Date	Examiner
G06F17/30 OR G06F17/3053 OR G06F17/30554 OR G06F17/30864 OR G06F17/30867...	6/16/2018	TV

CPC COMBINATION SETS - SEARCHED		
Symbol	Date	Examiner

US CLASSIFICATION SEARCHED			
Class	Subclass	Date	Examiner

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

SEARCH NOTES		
Search Notes	Date	Examiner
EAST	6/16/2018	TV
Inventorship Searched for potential DP	6/16/2018	TV

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

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EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	3	("20140280269")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/06/16: 22:20
L2	0	(stor\$5 same geographic\$2 location\$2 and aggregation and match\$5 same data item\$2)	US-PGPUB; USPAT	ADJ	OFF	2018/06/16: 22:20
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L6	5061	(stor\$5 same geographic\$2 location\$2 and aggregation and match\$5)	US-PGPUB; USPAT	ADJ	OFF	2018/06/16: 22:20
L7	68	(stor\$5 same geographic\$2 location\$2 and aggregation and match\$5 same data item\$2)	US-PGPUB; USPAT	ADJ	OFF	2018/06/16: 22:20
L8	1	L7 and integrat\$5.ti.	US-PGPUB; USPAT	ADJ	OFF	2018/06/16: 22:20
L9	19	L7 and longitude	US-PGPUB; USPAT	ADJ	OFF	2018/06/16: 22:20
L10	656	I6 and tax	US-PGPUB; USPAT	ADJ	OFF	2018/06/16: 22:20
L11	159	I10 and data item\$2	US-PGPUB; USPAT	ADJ	OFF	2018/06/16: 22:21
L12	159	I11 and location	US-PGPUB; USPAT	ADJ	OFF	2018/06/16: 22:22
L13	139	I12 and region	US-PGPUB; USPAT	ADJ	OFF	2018/06/16: 22:22
S1	3	("20140280269")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/06/13: 22:56
S2	0	(stor\$5 same geographic\$2 location\$2 and aggregation and match\$5 same data item\$2)	US-PGPUB; USPAT	ADJ	OFF	2018/06/13: 23:08
S3	0	(stor\$5 same geographic\$2 location\$2 and aggregation and match\$5 and data item\$2)	US-PGPUB; USPAT	ADJ	OFF	2018/06/13: 23:08
S4	0	(stor\$5 same geographic\$2 location\$2 and aggregation and match\$5)	US-PGPUB; USPAT	ADJ	OFF	2018/06/13: 23:08

EAST Search History

S5	5056	(stor\$5 same geographic\$2 location\$2 and aggregation and match\$5)	US-PGPUB; USPAT	ADJ	OFF	2018/06/13:23:08
S6	5056	(stor\$5 same geographic\$2 location\$2 and aggregation and match\$5)	US-PGPUB; USPAT	ADJ	OFF	2018/06/13:23:08
S7	68	(stor\$5 same geographic\$2 location\$2 and aggregation and match\$5 same data item\$2)	US-PGPUB; USPAT	ADJ	OFF	2018/06/13:23:09
S8	1	S7 and integrat\$5.ti.	US-PGPUB; USPAT	ADJ	OFF	2018/06/13:23:09
S9	19	S7 and longitude	US-PGPUB; USPAT	ADJ	OFF	2018/06/13:23:10

6/ 16/ 2018 10:22:40 PM**C:\ Users\ tvo8\ Documents\ EAST\ Workspaces\ 15049595.wsp**

EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	3	("20140280269")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/06/16: 22:20
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L3	0	(stor\$5 same geographic\$2 location\$2 and aggregation and match\$5 and data item\$2)	US-PGPUB; USPAT	ADJ	OFF	2018/06/16: 22:20
L4	0	(stor\$5 same geographic\$2 location\$2 and aggregation and match\$5)	US-PGPUB; USPAT	ADJ	OFF	2018/06/16: 22:20
L5	5061	(stor\$5 same geographic\$2 location\$2 and aggregation and match\$5)	US-PGPUB; USPAT	ADJ	OFF	2018/06/16: 22:20
L6	5061	(stor\$5 same geographic\$2 location\$2 and aggregation and match\$5)	US-PGPUB; USPAT	ADJ	OFF	2018/06/16: 22:20
L7	68	(stor\$5 same geographic\$2 location\$2 and aggregation and match\$5 same data item\$2)	US-PGPUB; USPAT	ADJ	OFF	2018/06/16: 22:20
L8	1	L7 and integrat\$5.ti.	US-PGPUB; USPAT	ADJ	OFF	2018/06/16: 22:20
L9	19	L7 and longitude	US-PGPUB; USPAT	ADJ	OFF	2018/06/16: 22:20
L10	656	l6 and tax	US-PGPUB; USPAT	ADJ	OFF	2018/06/16: 22:20
L11	159	l10 and data item\$2	US-PGPUB; USPAT	ADJ	OFF	2018/06/16: 22:21
L12	159	l11 and location	US-PGPUB; USPAT	ADJ	OFF	2018/06/16: 22:22
L13	139	l12 and region	US-PGPUB; USPAT	ADJ	OFF	2018/06/16: 22:22
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U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)	ATTY. DOCKET NO. 290115.425	APPLICATION NO. 15/049,595
	INVENTOR(S) Chris Barrow et al.	
	FILING DATE 2/22/2016	GROUP ART UNIT 2156

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*EXAMINER INITIAL		DOCUMENT NUMBER	KIND CODE	DATE	NAME	FILING DATE IF APPROPRIATE
	1	2014/0280269	A1	09/18/14	Schultz et al.	
	2					
	3					
	4					
	5					

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*EXAMINER INITIAL		DOCUMENT NUMBER	KIND CODE	DATE	COUNTRY	TRANSLATION	
	1					YES	NO
	2						
	3						
	4						

NON-PATENT LITERATURE DOCUMENTS *(Including Author, Title, Date, Pertinent Pages, Etc.)*

	1		
	2		
	3		
	4		
	5		
	6		

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /T.V.V/

EXAMINER /TRUONG V VO/	DATE CONSIDERED 06/13/2018
* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance <u>and</u> not considered. Include copy of this form with next communication to applicant.	

Bibliographic Data

Application No: 15/049,595

Foreign Priority claimed: ☐ Yes ☒ No

35 USC 119 (a-d) conditions met: ☐ Yes ☒ No ☐ Met After Allowance

Verified and Acknowledged:

/TRUONG V VO/

/T.V./

Examiner's Signature

Initials

Title:

INTEGRATED CENTRALIZED PROPERTY DATABASE
SYSTEMS AND METHODS

FILING or 371(c) DATE	CLASS	GROUP ART UNIT	ATTORNEY DOCKET NO.
02/22/2016	707	2156	6339.093
RULE			

APPLICANTS

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Chris Pershing Redmond, WA, UNITED STATES

David Kinsman Woodinville, WA, UNITED STATES

CONTINUING DATA

FOREIGN APPLICATIONS

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\$2,100

<i>Index of Claims</i> 	Application/Control No. 15049595	Applicant(s)/Patent Under Reexamination BARROW ET AL.
	Examiner TRUONG VO	Art Unit 2156

☒	Rejected	☐	Cancelled	☐	N	Non-Elected	☐	A	Appeal
☐	Allowed	☐	Restricted	☐	I	Interference	☐	O	Objected

☐ Claims renumbered in the same order as presented by applicant									
☐ CPA									
☐ T.D.									
☐ R.1.47									
CLAIM		DATE							
Final	Original	06/16/2018							
	1	✓							
	2	✓							
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	20	✓							
	21	✓							

ELECTRONICALLY TRANSMITTED: 12/20/2018

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Serial No.:	15/049,595	Confirmation No.: 2683
First Named Inventor:	Chris Barrow	
Filed:	02/22/2016	
Art Unit:	2156	
Examiner:	VO, TRUONG V	
Title:	Integrated Centralized Property Database Systems and Methods	
Docket No.:	6339.093	
Customer No.:	30589	

RESPONSE

The following is being submitted in response to the Office Action dated
June 25, 2018:

Amendments to the Claims as shown in the Listing of Claims begin on page 2.

Remarks begin on page 8 of this paper.

Substitute for form 1449/PTO PTO/SB/08A and 08B Form 6-2 and Form 6-2.1 SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)		Complete if Known			
		Application No.	15/049,595		
		Filing Date	02/22/2016		
		First Named Inventor	Chris Barrow		
		Art Unit	2683		
		Examiner Name	VO, TRUONG V		
		Attorney Docket No.	6339.093		

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EXAM INIT.	Cite No. ¹	Foreign Document No. ³ Country Code ⁴ - Kind Code ⁵ (if known)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM/DD/YYYY	T ⁶
	F01	EP 1903491 A1	ZILLOW INC	03/26/2008	

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EXAM INIT.	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.
	NPL01	PICTOMETRY INTERNATIONAL CORP., Electronic Field Study User Guide Version 2.7 (filed as Exhibit-1004 in IPR2016-00593), copyright July 2007.

Examiner Signature:	Date Considered:
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1 Applicant's unique citation designation number.

2 See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04.

3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3).

4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document.

5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible.

6 Applicant is to place a check mark here if English language Translation is attached.

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PTO/SB/08A and 08B
Form 6-2 and Form 6-2.1

**SUPPLEMENTAL
INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**
(Use as many sheets as necessary)

Complete if Known

Application No.	15/049,595
Filing Date	02/22/2016
First Named Inventor	Chris Barrow
Art Unit	2683
Examiner Name	VO, TRUONG V
Attorney Docket No.	6339.093

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Doc code: IDS

Doc description: Information Disclosure Statement (IDS) Filed

Substitute for form PTO/SB/08a

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**
(Not for submission under 37 CFR 1.99)

Application Number	15/049,595
Filing Date	02/22/2016
First Named Inventor	Chris Barrow
Art Unit	2683
Examiner Name	VO, TRUONG V
Attorney Docket Number	6339.093

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Examiner Initial*	Cite No	Patent Number	Kind Code ¹	Issue Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
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	F2	WO/2000/053090	WO		09/14/2000	Cherepenin et al.	
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	F15	DK1418402T	DK		10/23/2006	Schultz et al.	
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Application Number:		15049595		
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First Named Inventor/Applicant Name:		Chris Barrow		
Filer:		Marc Alan Brockhaus/Ashley Morales		
Attorney Docket Number:		6339.093		
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First Named Inventor/Applicant Name:	Chris Barrow
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REMARKS

This is intended to be a complete response to the Office Action mailed June 25, 2018. In the Office Action, claims 1-21 were rejected. Claims 1-5, 8-10, 12-16, and 18-21 are pending in the application, with claims 1, 10, 14, and 21 being independent. Claims 6, 11, and 17 are cancelled herein. Claims 1, 7, 10, 14, 16, 18, and 21 have been amended. The amendments are supported at least in paragraphs [0024], [0052]-[0064] and [0073]-[0074] and FIG. 6 of the present application as published. No new matter has been added.

Respectfully, Applicant does not acquiesce in the correctness of the rejections or objections and reserves the right to present specific arguments regarding any rejected or objected-to claims not specifically addressed. Further, Applicant reserves the right to pursue the full scope of the subject matter of the claims prior to amendment herein in a subsequent patent application that claims priority to the instant application.

Based on the preceding amendments and the following remarks, Applicant respectfully requests reconsideration and withdrawal of the rejections and the issuance of a timely notice of allowance for all pending claims.

Claim Rejection – 35 U.S.C. § 102(a)(1)

Claims 1-21 were rejected under 35 U.S.C. § 102(a)(1) as being unpatentable as anticipated by Tolman et al. (US 2016/0210326) (hereinafter “Tolman”). For at least the reasons set forth below, Applicant respectfully submits that the currently pending claims are not anticipated by the cited reference. As the Examiner is aware, “A claim is anticipated only if each and every element as set forth in the claim is found, either

expressly or inherently described, in a single prior art reference.” *Verdegaal Bros. v. Union Oil Co. of California*, 814 F.2d 628, 631, 2 USPQ2d 1051, 1053 (Fed. Cir. 1987). Additionally, “The identical invention must be shown in as complete detail as is contained in the ... claim.” *Richardson v. Suzuki Motor Co.*, 868 F.2d 1226, 1236, 9 USPQ2d 1913, 1920 (Fed. Cir. 1989). *See* MPEP 2131. As explained below, the Tolman reference does not expressly or inherently describe each and every element as set forth in the pending claims or show the identical invention.

Generally, Tolman discloses “techniques for homogenizing query instructions of a new database query to enable identification of the cached earlier results of a similar earlier database query.” Tolman paragraph [0025]. “The resulting homogenized instructions may then be used as the basis to identify a previous logically similar database query, thereby enabling the results of that earlier query to be used again as the basis of the new results for the new database query.” *Id.* In other words, Tolman re-uses query results, even when similar queries differ to some extent (such as in expressions or syntax as described in paragraph [0046]), to reduce the amount of time and resources need to perform searches. *See, for example*, paragraphs [0025] and [0041].

Regarding independent claim 1, the Office Action states that paragraph [0065] of Tolman teaches storing a plurality of data items in a data aggregation system, each of the plurality of data items being associated with one or more location identifiers of a particular geographic point on earth. Applicant respectfully disagrees. Tolman does not expressly or inherently describe storing a plurality of data items in a data aggregation

system, each of the plurality of data items *being associated with one or more location identifiers of a particular geographic point on earth*, wherein at least a portion of the plurality of data items stored in the data aggregation system are *further associated with one or more time identifiers*, as recited in amended claim 1. Paragraph [0065] of Tolman discusses organization of a data set “based on labels used as part of the indexing scheme” and describes a “location” that is a location *within that data set*, not identifiers of a particular *geographic point on earth*.

The Office Action also states that paragraph [0076] of Tolman teaches receiving, by at least one processor, a query regarding a geographic location. Applicant respectfully disagrees and submits that the cited paragraph discloses not receiving a query regarding a geographic location, but rather *using “the geographic location of the query device 100 ...as a proxy for explicit identification of the user of the query device 100.”* Emphasis added. This information is then used to identify the user so that the security component can “retrieve from the data set 330 permissions data 338 that specifies what portion(s) of the data set 330 the user of the query device 100 has permission to access.” See paragraph [0076].

The Office Action further states that paragraph [0031] of Tolman teaches retrieving, from the data aggregation system, data items having associated location identifiers matching the received geographic location. Applicant respectfully disagrees and submits that paragraph [0031] makes no mention of data items having associated location identifiers matching the received geographic location. Rather, paragraph [0031] discusses “a further part of homogenizing the query instructions” by “interpret[ing]

expressions and/or syntax of the query instructions to identify and combine detail filters used in selecting portions of data to use in generating the new results as part of searching for those portions of data in a data set.” In other words, the paragraph is describing the construction of data filters in a particular manner.

Based on the above remarks, Applicant respectfully submits that Tolman does not teach or suggest the elements of independent claim 1.

Regarding dependent claim 3, the Office Action states that paragraph [0041] of Tolman teaches wherein the one or more location identifiers further include at least one of a height above or a depth below the surface of the earth. Applicant respectfully disagrees and submits that paragraph [0041] is simply giving examples of historical data and current data used to drive predictions, but none of the examples expressly or inherently describe location identifiers including height above or a depth below the surface of the earth.

Regarding dependent claim 6, elements of which are now incorporated into independent claim 1, the Office Action states that paragraph [0071] of Tolman teaches wherein at least a portion of the plurality of data items stored in the data aggregation system are further associated with one or more time identifiers, the method further comprising: receiving, by the at least one processor, a query regarding time information; wherein retrieving from the data aggregation system further includes retrieving data items having associated time identifiers matching the received time information. Applicant respectfully disagrees, and for purposes of discussion of the elements as incorporated into claim 1, submits that paragraph [0071] of Tolman discusses how to

“interpret the expressions and syntax of executable instructions making up the query instructions 110...to identify and combine detail filters implemented as comparisons between numerical values.” However, Tolman does not expressly or inherently describe receiving a query regarding time information or retrieving data items having associated time identifiers matching the received time information. Tolman is simply describing the creation of particular detail filters for a data set.

Regarding dependent claim 7, the Office Action states that paragraph [0081] discloses wherein time information includes one or more time periods. Tolman paragraph [0081] discloses updating the results cache and removing entries in the results cache that are present for more than a predetermined period of time. This does not, however, expressly or inherently describe “wherein the time information *of the query* includes one or more time periods” as recited in amended claim 7 in relation to claim 1.

Applicant respectfully submits that the arguments regarding Tolman and independent claim 1 apply equally to independent claims 10, 14, and 21, which contain similar elements, though differing in scope from independent claim 1, and are incorporated herein.

Further, regarding dependent claims 2-5, 8, 9, 12, 13, 15, 16, and 18-20, Applicant notes that a dependent claim incorporates by reference all of the limitations of any independent claim from which it depends.¹ The Federal Circuit Court has

¹ 35 U.S.C. § 112 ¶ 4

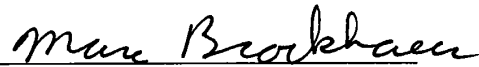
indicated that "limitation" refers to the claim language.² A dependent claim cannot be found to be anticipated or obvious under 35 U.S.C. §§ 102 or 103 if its parent claim, itself either an independent claim or a parent but dependent claim, is found unanticipated or unobvious.³ Therefore, Applicant respectfully submits that the allowability of independent claims 1, 10, and 14 overcomes the rejection of claims 2-5, 8, 9, 12, 13, 15, 16, and 18-20, which depend thereon.

In light of the foregoing, reconsideration and withdrawal of the rejection of claims 1-21 under pre-AIA 35 U.S.C. § 103(a), as applicable to the currently pending claims, is respectfully requested.

CONCLUSION

The foregoing is intended to be a complete response to the Office Action dated June 25, 2018. Applicant respectfully requests reconsideration and withdrawal of the rejections set forth in the Office Action and a timely notice of allowance for all of the pending claims. Should the Examiner have any questions or comments regarding the foregoing, or any other matter, the undersigned would welcome a telephonic interview with the Examiner.

Respectfully submitted,



Marc A. Brockhaus, Reg. No. 40,923
DUNLAP CODDING, P.C.
P.O. Box 16370

² *Lockheed Martin Corp. v. Space Sys./Loral, Inc.*, 324 F.3d 1308, 1322 (Fed. Cir. 2003).

³ *Comaper Corp. v. Antec, Inc.*, 596 F.3d 1343, 93 U.S.P.Q.2d (BNA) 1873 (Fed. Cir. 2010).

Oklahoma City, Oklahoma 73118

Telephone: 405-607-8600

Facsimile: 405-607-8686

Attorney for Applicant

Amendments to the Claims:

The following listing of claims supersedes and replaces all prior versions in the patent application.

Listing of Claims:

1. (Currently Amended) A method, comprising:

storing a plurality of data items in a data aggregation system, each of the plurality of data items being associated with one or more location identifiers of a particular geographic point on earth, wherein at least a portion of the plurality of data items stored in the data aggregation system are further associated with one or more time identifiers;

receiving, by at least one processor, a query regarding a geographic location and including time information;

retrieving, from the data aggregation system, data items having associated location identifiers matching the received geographic location and having associated time identifiers matching the received time information; and

outputting the retrieved data items.

2. (Original) The method of claim 1, wherein the one or more location identifiers include latitude and longitude coordinates of a surface of the earth.

3. (Original) The method of claim 2, wherein the one or more location identifiers further include at least one of a height above or a depth below the surface of the earth.

4. (Original) The method of claim 1, wherein the received geographic location includes a region on the earth.

5. (Original) The method of claim 4, wherein the region on the earth is identified by multiple geocoded locations, the multiple geocoded locations described in at least latitude and longitude coordinates.

6. (Cancelled)

7. (Currently Amended) The method of claim 1, ~~claim 6~~, wherein the time information of the query includes one or more time periods.

8. (Original) The method of claim 1, wherein the one or more location identifiers include content external to the data aggregation system.

9. (Original) The method of claim 1, wherein the stored data items include at least one of: tax data, building code data, weather data, insurance data, crime data, survey data, school data, demographic data and property data.

10. (Currently Amended) A system, comprising:

a computer processor;

a memory coupled to the processor; and

an integrated centralized property database, the processor being configured to:

receive from a user computer a query including a location identifier, the

location identifier including one of a geocoded location and

multiple geocoded locations identifying a polygon,

receive from the user computer a time period identifier,

retrieve from the integrated centralized property database location data,

the location data including data associated with the location

identifier of a geographic location on the earth, and associated

with the received time period identifier, and

provide the retrieved location data to the user computer via a graphical

user interface.

11. (Cancelled)

12. (Original) The system of claim 10, the processor further configured to:

retrieve parcel information from the integrated centralized property database;

compare the retrieved parcel information with the location data to determine

parcels associated with the location identifier; and

output the parcels associated with the location identifier.

13. (Original) The system of claim 12, the processor further configured to:
retrieve insurance policy information from the integrated centralized property
database;
compare the retrieved insurance policy information with the parcels associated
with the location identifier to determine the insurance policies associated
with the location identifier; and
output the insurance policies associated with the location identifier.

14. (Currently Amended) A system, comprising:
an integrated centralized property database stored on computer-readable
storage media, the integrated centralized property database including a
plurality of data items, each of the plurality of data items being
associated with one or more location identifiers indicating a particular
geographic point on earth, and at least a portion of the plurality of data
items further being associated with one or more time identifiers;
at least one computer processor communicatively coupled with the integrated
centralized property database, the at least one computer processor
configured to:
receive, from a user computer system, a query of a geographic location and time
information;

retrieve, from the integrated centralized property database, data items having associated location identifiers matching the received geographic location and having associated time identifiers matching the received time information; and

provide the retrieved data items to the user computer system via a graphical user interface.

15. (Original) The system of claim 14, wherein the one or more location identifiers include latitude and longitude coordinates.

16. (Currently Amended) The system of claim 15, wherein the one or more location identifiers further include Z-axis coordinates, wherein the Z-axis coordinates are indicative of location above or below a surface of the earth.

17. (Cancelled)

18. (Currently Amended) The system of claim ~~[[17]]~~ 14, wherein the time identifier includes one or more time periods.

19. (Original) The system of claim 14, wherein the one or more location identifiers are associated with content external to the system.

20. (Original) The system of claim 14, wherein the stored data items include at least one of: tax data, building code data, weather data, insurance data, crime data, survey data, school data, demographic data and property data.

21. (Currently Amended) A system, comprising:

means for storing a plurality of data items in a data aggregation system, each of the plurality of data items being associated with one or more location identifiers indicating a particular geographic point on earth, and at least a portion of the plurality of data items further being associated with one or more time identifiers;

means for receiving a query regarding a geographic location;

means for retrieving data items having associated location identifiers matching the received geographic location and having associated time identifiers matching the received time information; and

means for outputting the retrieved data items.

Doc Code: TRAN.LET

Document Description: Transmittal Letter

PTO/SB/21 (07-09)

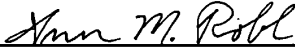
Approved for use through 07/31/2012. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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TRANSMITTAL FORM (to be used for all correspondence after initial filing)	Application Number	15/049,595
	Filing Date	02/22/2016
	First Named Inventor	Chris Barrow
	Art Unit	2156
	Examiner Name	Truong V. Vo
	Attorney Docket Number	6339,093
Total Number of Pages In This Submission		

ENCLOSURES (Check all that apply)		
☐ Fee Transmittal Form ☒ Fee Attached ☐ Amendment/Reply ☐ After Final ☐ Affidavits/declaration(s) ☒ Extension of Time Request ☐ Express Abandonment Request ☐ Information Disclosure Statement ☐ Certified Copy of Priority Document(s) ☐ Reply to Missing Parts/ Incomplete Application ☐ Reply to Missing Parts under 37 CFR 1.52 or 1.53	☐ Drawing(s) ☐ Licensing-related Papers ☐ Petition ☐ Petition to Convert to a Provisional Application ☐ Power of Attorney, Revocation Change of Correspondence Address ☐ Terminal Disclaimer ☐ Request for Refund ☐ CD, Number of CD(s) _____ ☐ Landscape Table on CD	☐ After Allowance Communication to TC ☐ Appeal Communication to Board of Appeals and Interferences ☐ Appeal Communication to TC (Appeal Notice, Brief, Reply Brief) ☐ Proprietary Information ☐ Status Letter ☒ Other Enclosure(s) (please identify below): See Remarks
Remarks ELECTRONICALLY TRANSMITTED: 1. SB21 Transmittal Form (1 pg); and 2. AIA22 Petition for Extension of Time for Response to Office Action (1 pg).		

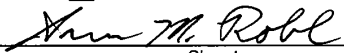
SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT			
Firm Name	DUNLAP CODDING, P.C.		
Signature			
Printed name	Ann M. Robl		
Date	12/20/2018	Reg. No.	71,541

CERTIFICATE OF TRANSMISSION/MAILING			
I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below:			
Signature			
Typed or printed name	Ann M. Robl	Date	71,541

This collection of information is required by 37 CFR 1.5. 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 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, 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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PETITION FOR EXTENSION OF TIME UNDER 37 CFR 1.136(a)		Docket Number (Optional) 6339.093																														
Application Number 15/049,595	Filed 02/22/2016																															
For Chris Barrow																																
Art Unit 2156	Examiner Truong V. Vo																															
This is a request under the provisions of 37 CFR 1.136(a) to extend the period for filing a reply in the above-identified application. The requested extension and fee are as follows (check time period desired and enter the appropriate fee below): <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 40%;"></th> <th style="width: 15%; text-align: center;">Fee</th> <th style="width: 15%; text-align: center;">Small Entity Fee</th> <th style="width: 15%; text-align: center;">Micro Entity Fee</th> <th style="width: 15%;"></th> </tr> </thead> <tbody> <tr> <td>☐ One month (37 CFR 1.17(a)(1))</td> <td style="text-align: center;">\$200</td> <td style="text-align: center;">\$100</td> <td style="text-align: center;">\$50</td> <td style="text-align: center;">\$ _____</td> </tr> <tr> <td>☐ Two months (37 CFR 1.17(a)(2))</td> <td style="text-align: center;">\$600</td> <td style="text-align: center;">\$300</td> <td style="text-align: center;">\$150</td> <td style="text-align: center;">\$ _____</td> </tr> <tr> <td>☒ Three months (37 CFR 1.17(a)(3))</td> <td style="text-align: center;">\$1,400</td> <td style="text-align: center;">\$700</td> <td style="text-align: center;">\$350</td> <td style="text-align: center;">\$ 1,400.00</td> </tr> <tr> <td>☐ Four months (37 CFR 1.17(a)(4))</td> <td style="text-align: center;">\$2,200</td> <td style="text-align: center;">\$1,100</td> <td style="text-align: center;">\$550</td> <td style="text-align: center;">\$ _____</td> </tr> <tr> <td>☐ Five months (37 CFR 1.17(a)(5))</td> <td style="text-align: center;">\$3,000</td> <td style="text-align: center;">\$1,500</td> <td style="text-align: center;">\$750</td> <td style="text-align: center;">\$ _____</td> </tr> </tbody> </table> ☐ Applicant asserts small entity status. See 37 CFR 1.27. ☐ Applicant certifies micro entity status. See 37 CFR 1.29. Form PTO/SB/15A or B or equivalent must either be enclosed or have been submitted previously. ☐ A check in the amount of the fee is enclosed. ☐ Payment by credit card. Form PTO-2038 is attached. ☐ The Director has already been authorized to charge fees in this application to a Deposit Account. ☐ The Director is hereby authorized to charge any fees which may be required, or credit any overpayment, to Deposit Account Number _____ ☒ Payment made via EFS-Web. WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038. I am the ☐ applicant. ☒ attorney or agent of record. Registration number 71,541 ☐ attorney or agent acting under 37 CFR 1.34. Registration number _____  Signature Date Ann M. Robl Typed or printed name 405-607-8600 Telephone Number NOTE: This form must be signed in accordance with 37 CFR 1.33. See 37 CFR 1.4 for signature requirements and certifications. Submit multiple forms if more than one signature is required, see below*.				Fee	Small Entity Fee	Micro Entity Fee		☐ One month (37 CFR 1.17(a)(1))	\$200	\$100	\$50	\$ _____	☐ Two months (37 CFR 1.17(a)(2))	\$600	\$300	\$150	\$ _____	☒ Three months (37 CFR 1.17(a)(3))	\$1,400	\$700	\$350	\$ 1,400.00	☐ Four months (37 CFR 1.17(a)(4))	\$2,200	\$1,100	\$550	\$ _____	☐ Five months (37 CFR 1.17(a)(5))	\$3,000	\$1,500	\$750	\$ _____
	Fee	Small Entity Fee	Micro Entity Fee																													
☐ One month (37 CFR 1.17(a)(1))	\$200	\$100	\$50	\$ _____																												
☐ Two months (37 CFR 1.17(a)(2))	\$600	\$300	\$150	\$ _____																												
☒ Three months (37 CFR 1.17(a)(3))	\$1,400	\$700	\$350	\$ 1,400.00																												
☐ Four months (37 CFR 1.17(a)(4))	\$2,200	\$1,100	\$550	\$ _____																												
☐ Five months (37 CFR 1.17(a)(5))	\$3,000	\$1,500	\$750	\$ _____																												

☐ * Total of _____ forms are submitted.

This collection of information is required by 37 CFR 1.136(a). The information is required to obtain or retain a benefit by the public, which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 6 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Electronic Patent Application Fee Transmittal				
Application Number:		15049595		
Filing Date:		22-Feb-2016		
Title of Invention:		INTEGRATED CENTRALIZED PROPERTY DATABASE SYSTEMS AND METHODS		
First Named Inventor/Applicant Name:		Chris Barrow		
Filer:		Ann M. Robl/Ashley Morales		
Attorney Docket Number:		6339.093		
Filed as Large Entity				
Filing Fees for Utility under 35 USC 111(a)				
Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Extension - 3 months with \$0 paid	1253	1	1400	1400
Miscellaneous:				
Total in USD (\$)				1400

Electronic Acknowledgement Receipt	
EFS ID:	34662043
Application Number:	15049595
International Application Number:	
Confirmation Number:	2683
Title of Invention:	INTEGRATED CENTRALIZED PROPERTY DATABASE SYSTEMS AND METHODS
First Named Inventor/Applicant Name:	Chris Barrow
Customer Number:	30589
Filer:	Ann M. Robl/Ashley Morales
Filer Authorized By:	Ann M. Robl
Attorney Docket Number:	6339.093
Receipt Date:	20-DEC-2018
Filing Date:	22-FEB-2016
Time Stamp:	17:54:20
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	CARD
Payment was successfully received in RAM	\$ 1400
RAM confirmation Number	122118INTEFSW17555100
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	Transmittal Letter	6339093_sb21TransmittalForm_PetforExtofTimeforResptoOA.pdf	55275	no	1
			4767ae1f122328f4fcb3401c3881a1b013edfe37		
Warnings:					
Information:					
2	Extension of Time	6339093_PetforExtofTimeforResptoOA.pdf	52369	no	1
			30d9eca70b54d7fd6f3fd3db0b68ea388e085f6		
Warnings:					
Information:					
3	Fee Worksheet (SB06)	fee-info.pdf	30706	no	2
			c4f4a9a8aa097a261a78a82dda2e2b144837956d		
Warnings:					
Information:					
Total Files Size (in bytes):			138350		
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.					

PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875					Application or Docket Number 15/049,595		Filing Date 02/22/2016		☐ To be Mailed	
ENTITY: ☒ LARGE ☐ SMALL ☐ MICRO										
APPLICATION AS FILED – PART I										
(Column 1)		(Column 2)								
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(e), (p), or (q))		N/A		N/A		N/A				
TOTAL CLAIMS (37 CFR 1.16(j))		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										
(Column 1)		(Column 2)		(Column 3)						
AMENDMENT	12/20/2018	CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE (\$)		ADDITIONAL FEE (\$)		
	Total (37 CFR 1.16(j))	* 18	Minus	** 21	= 0	X \$100 =		0		
	Independent (37 CFR 1.16(h))	* 4	Minus	***4	= 0	X \$460 =		0		
	☐ Application Size Fee (37 CFR 1.16(s))									
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))									
						TOTAL ADD'L FEE		0		
(Column 1)		(Column 2)		(Column 3)						
AMENDMENT		CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE (\$)		ADDITIONAL FEE (\$)		
	Total (37 CFR 1.16(j))	*	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.										

This collection of information is required by 37 CFR 1.16. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**
If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.



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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
15/049,595	02/22/2016	Chris Barrow	6339.093	2683
30589	7590	02/05/2019		
DUNLAP CODDING, P.C. PO BOX 16370 OKLAHOMA CITY, OK 73113			EXAMINER VO, TRUONG V	
			ART UNIT	PAPER NUMBER
			2156	
			NOTIFICATION DATE	DELIVERY MODE
			02/05/2019	ELECTRONIC

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

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

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

docketing@dunlapcoddington.com

Office Action Summary	Application No. 15/049,595	Applicant(s) Barrow et al.	
	Examiner TRUONG V VO	Art Unit 2156	AIA Status Yes

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

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTHS FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).

Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) ☒ Responsive to communication(s) filed on 12/20/2018.
☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on ____.

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

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

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

Disposition of Claims*

5) ☒ Claim(s) 1-5,7-10,12-16 and 18-21 is/are pending in the application.
 5a) Of the above claim(s) ____ is/are withdrawn from consideration.

6) ☐ Claim(s) ____ is/are allowed.

7) ☒ Claim(s) 1-5,7-10,12-16 and 18-21 is/are rejected.

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

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

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

Application Papers

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

11) ☒ The drawing(s) filed on 2/22/2016 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

Priority under 35 U.S.C. § 119

12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
Certified copies:
 a) ☐ All b) ☐ Some** c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. ____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

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

Attachment(s)

1) ☒ Notice of References Cited (PTO-892)

2) ☒ Information Disclosure Statement(s) (PTO/SB/08a and/or PTO/SB/08b)
 Paper No(s)/Mail Date 12/20/2018

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

4) ☐ Other: ____

DETAILED ACTION

Notice of Pre-AIA or AIA Status

1. The present application, filed on or after March 16, 2013, is being examined under the first inventor to file provisions of the AIA.
2. This action is in response to communications filed December 20, 2018.

Continued Examination Under 37 CFR 1.114

3. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on December 20, 2018 has been entered.

Response to Arguments

4. Applicant's arguments with respect to claims 1-5, 7-10, 12-16, and 18-21 have been considered but are moot in view of new ground(s) of rejection.

Status of Claims

5. Claims 1-5, 7-10, 12-16, and 18-21 are pending, of which claims 1, 10, 14 and 21 are in independent form. Claims 1-5, 7-10, 12-16, and 18-21 are rejected under 35 U.S.C. 103(a).

Claim Rejections - 35 USC § 103

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

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

7. Claims 1-5, 7-10, 12-16, and 18-21 are rejected under 35 U.S.C. 103(a) as being unpatentable over (2016/0210326 A1) in view of Steimle et al. (US 9,927,941 B2).

8. **Regarding claim 1**, Tolman teaches storing a plurality of data items in a data aggregation system, each of the plurality of data items being associated with one or more location identifiers of a particular geographic point on earth (i.e., portions of data and/or individual data items may be referenced through an index system that may include a row and/or a column along which each location is referred to with a label that may be made up of one or more text characters that are indicative of the what data items are associated with that location; [0065]).

Tolman teaches receiving, by at least one processor, a query regarding a geographic location (i.e., the geographic location of the query device 100 and/or other identifying information associated with the query device 100, itself, may serve as a proxy for explicit identification of the user of the query device 100 that may be provided by the user of the query device 100; [0076]).

Tolman teaches retrieving, from the data aggregation system, data items having associated location identifiers matching the received geographic location (i.e., the post -

aggregation filters used in selecting results of one or more aggregation operations to be included in the new results of performing the new database query may also be identified and combined. By way of example, instructions specifying the selection of the values of one or more averaging, summation and/or other aggregation operation based on the results of comparing numeric values may be gathered together and assembled into a single post -aggregation filter. In so doing, the various operands employed in specifying those post -aggregation filters may be reordered in accordance with one or more canonical rules; [0031]).

Tolman teaches outputting the retrieved data items (i.e., An instruction hash may then be taken of the homogenized form of the query instructions for comparison to one or more instruction hashes taken of homogenized forms of earlier query instructions of one or more earlier database queries to identify a match thereamong. If such a match is found, then the cached results from the performance of the matching earlier database query may be retrieved from a results cache in less time and using fewer resources than would be required to perform the new database query. A reversal of the homogenization performed on the query instructions may then be performed on the retrieved cached results to generate new results for the new database query; [0025]).

However, Tolman does not explicitly disclose wherein at least a portion of the plurality of data items stored in the data aggregation system are further associated with one or more time identifiers.

Meanwhile, Steimle teaches a method implemented by an analysis system is presented. The method comprises receiving task data objects; [Abstract]. This is similar to Tolman teaching because of a renaming component to homogenized query

instructions for retrieving data items from a data set organized using index labels by identifying a declaration instruction associating an object; [Abstract].

Steimle teaches wherein at least a portion of the plurality of data items stored in the data aggregation system are further associated with one or more time identifiers... including time information... associated time identifiers matching the received time information (i.e., hierarchical drill-down graph comprising at least two hierarchical levels and comprising one or more first nodes can be used for executing the data aggregation. Each first node can have assigned a node attribute. Each received task data object can be represented as a second node of the hierarchical drill-down graph [0061] The statistical result can be indicative of the average time period until a particular consumable needs to be refilled. This information can be used to automatically create a task data object specifying the task of refilling the corresponding consumable within a predefined security time span before the consumable may be empty; [0099]).

It would have been obvious to one of ordinary skill in the art at the time of the invention was made, having the teachings of Tolman and Steimle before him/her, to modify the method of Tolman with the teaching of Steimle to data aggregation. The motivation to combine is apparent in Tolman's reference, because of the query instructions define a plurality of detail filters to be employed prior to execution of instructions within the query instructions that perform aggregation; (see Tolman, [0011]). Therefore, it would be advantageous to improve the efficiency of task aggregation; (see Steimle, [0099]).

9. **Regarding claim 2**, Tolman teaches wherein the one or more location identifiers include latitude and longitude coordinates of a surface of the earth (i.e., `<Lookup property="latitude" externalSource="us.primary.names"/> <Lookup property="longitude"; [0066]`).

10. **Regarding claim 3**, Tolman teaches wherein the one or more location identifiers further include at least one of a height above or a depth below the surface of the earth (i.e., By way of example, data from a database of historical data (e.g., historical market data, data from earlier earthquakes, data gathered from earlier vehicular crash tests, etc.) may be used alongside other newer or more current data (e.g., current market activity, measurements of new earthquake tremors, engineering data concerning a proposed vehicle redesigned, etc.) to derive a prediction of what is deemed most likely to occur next (e.g., an important market shift, an expected larger earthquake tremor, a prediction about crash testing the redesigned vehicle, etc.); [0041]).

11. **Regarding claim 4**, Tolman teaches wherein the received geographic location includes a region on the earth (i.e., `<BusinessItemFolder label=""> ##STR00002## ##STR00003## ##STR00004## <DataItem name="bi35" xref="REGION"/> <DataItem name="bi47" xref="COST"/> </BusinessItemFolder> </DataSource> </DataSources>; [0061]`).

12. **Regarding claim 5**, Tolman teaches wherein the region on the earth is identified by multiple geocoded locations, the multiple geocoded locations described in at least latitude and longitude coordinates (i.e., <GeoInfo geoType="external" coordinateSpace="WGS84"> <Lookup property="latitude" externalSource="us.primary.names"/> <Lookup property=" longitude" externalSource="us.primary.names"/> <Lookup property="polygonId" externalSource="us.primary.names"/> <Lookup property="mapId"; [0066]).

13. **Regarding claim 6**, Tolman teaches wherein at least a portion of the plurality of data items stored in the data aggregation system are further associated with one or more time identifiers, the method further comprising: receiving, by the at least one processor, a query regarding time information, wherein retrieving from the data aggregation system further includes retrieving data items having associated time identifiers matching the received time information (i.e., More precisely, the reordering component 5455 may identify each instruction that employs the result of a comparison between two or more numeric values as the basis for selecting one or more numeric values resulting from one or more aggregation operations performed on the one or more data set portions 333 to become part of the results data 730. The reordering component 5455 may then combine all of the identified ones of such instructions into a single post-aggregate filter where the different comparisons may be combined with one or more AND operators and/or one or more other operators; [0071]).

14. **Regarding claim 7**, Tolman teaches wherein the time information includes one or more time periods (i.e., the updating component 5462 may selectively remove one or more entries in accordance with one or more cache policies to prevent the contents of the results cache 570 from becoming stale. By way of example, entries present within the results cache 570 for more than a predetermined period of time may be removed; [0081]).

15. **Regarding claim 8**, Tolman teaches wherein the one or more location identifiers include content external to the data aggregation system (i.e., More specifically, as depicted, the storage 960 may include one or more of a volatile storage 961 (e.g., solid state storage based on one or more forms of RAM technology), a non-volatile storage 962 (e.g., solid state, ferromagnetic or other storage not requiring a constant provision of electric power to preserve their contents), and a removable media storage 963 (e.g., removable disc or solid state memory card storage by which information may be conveyed between computing devices); [0114]).

16. **Regarding claim 9**, Tolman teaches wherein the stored data items include at least one of: tax data, building code data, weather data, insurance data, crime data, survey data, school data, demographic data and property data (i.e., the performance of a database query may require portions of data to be searched for and retrieved from a relatively large data set stored among multiple storage devices, and may then further require the performance of various filter and/or aggregation calculations on a large quantity of data items to generate the results of the database

query. Given the considerable size of many data sets and of the portions of data to be searched for and retrieved from such data sets (e.g., data sets that may be made up of billions of data items and that may be stored across numerous storage devices), performing a database query may entail considerable use of processing, memory, and other resources of multiple devices, as well as considerable use of multiple network connections among those multiple devices; [0026]).

17. **Regarding claims 10-21.** Claim 10-21 are essentially the same as the rejected claims above and rejected for the same reasons as applied hereinabove.

Conclusion

18. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than **SIX MONTHS** from the date of this final action.

19. Any inquiry concerning this communication or earlier communications from the Examiner should be directed to TRUONG V VO whose telephone number is (571)272-1796. The Examiner can normally be reached on 7am-5pm M-Thr.

If attempts to reach the Examiner by telephone are unsuccessful, the Examiner's supervisor, Alford Kindred can be reached on (571) 272-4037. 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.

January 31, 2019

Truong Van Vo

/Truong V Vo/
Examiner, Art Unit 2156

Notice of References Cited	Application/Control No. 15/049,595		Applicant(s)/Patent Under Reexamination Barrow et al.	
	Examiner TRUONG V VO		Art Unit 2156	Page 1 of 1

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	CPC Classification	US Classification
*	A	US-20160210326-A1	07-2016	TOLMAN; KENNETH	G06F16/24539	1/1
*	B	US-9927941-B2	03-2018	Steimle; Anton	G16H10/40	1/1
	C					
	D					
	E					
	F					
	G					
	H					
	I					
	J					
	K					
	L					
	M					

FOREIGN PATENT DOCUMENTS

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

NON-PATENT DOCUMENTS

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

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

Search Notes 	Application/Control No. 15/049,595	Applicant(s)/Patent Under Reexamination Barrow et al.
	Examiner TRUONG V VO	Art Unit 2156

CPC - Searched*		
Symbol	Date	Examiner
G06F17/30 OR G06F17/3053 OR G06F17/30554 OR G06F17/30864 OR G06F17/30867...	01/30/2019	TV

CPC Combination Sets - Searched*		
Symbol	Date	Examiner

US Classification - Searched*			
Class	Subclass	Date	Examiner

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

Search Notes		
Search Notes	Date	Examiner
EAST	01/30/2019	TV
Inventorship Searched for potential DP	01/30/2019	TV

Interference Search			
US Class/CPC Symbol	US Subclass/CPC Group	Date	Examiner

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<i>Index of Claims</i> 	Application/Control No. 15/049,595	Applicant(s)/Patent Under Reexamination Barrow et al.
	Examiner TRUONG V VO	Art Unit 2156

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

CLAIMS									
☐ Claims renumbered in the same order as presented by applicant ☐ CPA ☐ T.D. ☐ R.1.47									
CLAIM		DATE							
Final	Original	06/16/2018	01/30/2019						
	1	✓	✓						
	2	✓	✓						
	3	✓	✓						
	4	✓	✓						
	5	✓	✓						
	6	✓	-						
	7	✓	✓						
	8	✓	✓						
	9	✓	✓						
	10	✓	✓						
	11	✓	-						
	12	✓	✓						
	13	✓	✓						
	14	✓	✓						
	15	✓	✓						
	16	✓	✓						
	17	✓	-						
	18	✓	✓						
	19	✓	✓						
	20	✓	✓						
	21	✓	✓						

EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	30	("20020041328" "20020041717" "20020114536" "20030014224" "20030043824" "20030088362" "20030164962" "20030214585" "20040105090" "20040167709" "20050073241" "20050088251" "20050169521" "20060028550" "20060092043" "20060238383" "20060250515" "20070024612" "20070046448" "20070237420" "20080120031" "20080123994" "20080158256" "20090177458" "20090208095" "20090304227" "20100296693" "20110033110" "20130246204" "20140280269").PN.	US-PGPUB; USPAT	OR	OFF	2019/01/30 12:45
L2	2	"20160210326"	US-PGPUB; USPAT	ADJ	OFF	2019/01/30 12:58
L3	2	(time identifier\$2 same data aggregation)	US-PGPUB; USPAT	ADJ	OFF	2019/01/30 13:01
L4	27	(time identifier\$2 and data aggregation)	US-PGPUB; USPAT	ADJ	OFF	2019/01/30 13:04
L5	6	(time identifier\$2 same location\$2 and data aggregation)	US-PGPUB; USPAT	ADJ	OFF	2019/01/30 13:04
L6	38	2003/0012428	US-PGPUB; USPAT	ADJ	OFF	2019/01/30 13:22
L7	8	"20030012428"	US-PGPUB; USPAT	ADJ	OFF	2019/01/30 13:22
L8	2	"20160210326"	US-PGPUB; USPAT	ADJ	OFF	2019/01/30 13:23
L9	2	"20160210326"	US-PGPUB; USPAT	ADJ	OFF	2019/01/30 13:25
S1	3	("20140280269")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/06/13 22:56
S2	0	(stor\$5 same geographic\$2 location\$2 and aggregation and match\$5 same data item\$2)	US-PGPUB; USPAT	ADJ	OFF	2018/06/13 23:08
S3	0	(stor\$5 same geographic\$2 location\$2 and aggregation and match\$5 and data item\$2)	US-PGPUB; USPAT	ADJ	OFF	2018/06/13 23:08
S4	0	(stor\$5 same geographic\$2 location\$2 and aggregation and match\$5)	US-PGPUB; USPAT	ADJ	OFF	2018/06/13 23:08
S5	5056	(stor\$5 same geographic\$2 location\$2 and aggregation and match\$5)	US-PGPUB; USPAT	ADJ	OFF	2018/06/13 23:08
S6	5056	(stor\$5 same geographic\$2 location\$2 and	US-PGPUB;	ADJ	OFF	2018/06/13

		aggregation and match\$5)	USPAT			23:08
S7	68	(stor\$5 same geographic\$2 location\$2 and aggregation and match\$5 same data item\$2)	US-PGPUB; USPAT	ADJ	OFF	2018/06/13 23:09
S8	1	S7 and integrat\$5.ti.	US-PGPUB; USPAT	ADJ	OFF	2018/06/13 23:09
S9	19	S7 and longitude	US-PGPUB; USPAT	ADJ	OFF	2018/06/13 23:10
S10	3	("20140280269")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2018/06/16 22:20
S11	0	(stor\$5 same geographic\$2 location\$2 and aggregation and match\$5 same data item\$2)	US-PGPUB; USPAT	ADJ	OFF	2018/06/16 22:20
S12	0	(stor\$5 same geographic\$2 location\$2 and aggregation and match\$5 and data item\$2)	US-PGPUB; USPAT	ADJ	OFF	2018/06/16 22:20
S13	0	(stor\$5 same geographic\$2 location\$2 and aggregation and match\$5)	US-PGPUB; USPAT	ADJ	OFF	2018/06/16 22:20
S14	5061	(stor\$5 same geographic\$2 location\$2 and aggregation and match\$5)	US-PGPUB; USPAT	ADJ	OFF	2018/06/16 22:20
S15	5061	(stor\$5 same geographic\$2 location\$2 and aggregation and match\$5)	US-PGPUB; USPAT	ADJ	OFF	2018/06/16 22:20
S16	68	(stor\$5 same geographic\$2 location\$2 and aggregation and match\$5 same data item\$2)	US-PGPUB; USPAT	ADJ	OFF	2018/06/16 22:20
S17	1	S16 and integrat\$5.ti.	US-PGPUB; USPAT	ADJ	OFF	2018/06/16 22:20
S18	19	S16 and longitude	US-PGPUB; USPAT	ADJ	OFF	2018/06/16 22:20
S19	656	S15 and tax	US-PGPUB; USPAT	ADJ	OFF	2018/06/16 22:20
S20	159	S19 and data item\$2	US-PGPUB; USPAT	ADJ	OFF	2018/06/16 22:21
S21	159	S20 and location	US-PGPUB; USPAT	ADJ	OFF	2018/06/16 22:22
S22	139	S21 and region	US-PGPUB; USPAT	ADJ	OFF	2018/06/16 22:22
S23	1398	S14 AND ((G06F17/30 OR G06F17/3053 OR G06F17/30554 OR G06F17/30864 OR G06F17/30867 OR G06F3/0482 OR G06F17/241 OR G06F17/246 OR G06F17/248 OR G06F19/22 OR G06F2203/04806 OR G06F3/04845 OR G06F3/0604 OR G06F3/067 OR G06F17/2247 OR G06F17/30345 OR G06F19/00 OR G06F21/10 OR G06F21/6245 OR G06F2201/84 OR G06F2209/541 OR G06F2209/542 OR G06F3/04842 OR G06F3/0647 OR G06F8/34 OR G06F8/38 OR G06F9/46 OR G06F9/54 OR G06F9/542 OR G06F11/1451 OR G06F11/1453 OR G06F11/1458 OR G06F11/1464 OR G06F11/1469 OR G06F11/2056 OR G06F11/2094 OR	US-PGPUB; USPAT	ADJ	OFF	2018/06/16 22:25

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		Application No.		15/049,595	
		Filing Date		02/22/2016	
		First Named Inventor		Chris Barrow	
		Art Unit		~~2883~~ 2156	
		Examiner Name		VO, TRUONG V	
		Attorney Docket No.		6339.093	

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	NPL01	PICTOMETRY INTERNATIONAL CORP., Electronic Field Study User Guide Version 2.7 (filed as Exhibit-1004 in IPR2016-00593), copyright July 2007.			

Examiner Signature: /TRUONG V VO/			Date Considered: 01/30/2019		
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**SUPPLEMENTAL
INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**
(Use as many sheets as necessary)

Complete if Known

Application No.	15/049,595
Filing Date	02/22/2016
First Named Inventor	Chris Barrow
Art Unit	2683
Examiner Name	VO, TRUONG V
Attorney Docket No.	6339.093

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Doc description: Information Disclosure Statement (IDS) Filed

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(Not for submission under 37 CFR 1.99)

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Filing Date	02/22/2016
First Named Inventor	Chris Barrow
Art Unit	2683
Examiner Name	VO, TRUONG V
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EXAMINER SIGNATURE			
Examiner Signature	/TRUONG V VO/	Date Considered	01/30/2019
*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through a citation if not in conformance and not considered. Include copy of this form with next communication to applicant.			
¹ See Kind Codes of USPTO Patent Documents at www.USPTO.GOV or MPEP 901.04. ² Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). ³ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁴ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁵ Applicant is to place a check mark here if English language translation is attached.			

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /T.V.V/

PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875				Application or Docket Number 15/049,595		Filing Date 02/22/2016		☐ To be Mailed	
ENTITY: ☒ LARGE ☐ SMALL ☐ MICRO									
APPLICATION AS FILED - PART I									
FOR		(Column 1) NUMBER FILED	(Column 2) NUMBER EXTRA		RATE (\$)		FEE (\$)		
☐ BASIC FEE (37 CFR 1.16(a), (b), or (c))		N/A	N/A		N/A				
☐ SEARCH FEE (37 CFR 1.16(k), (i), or (m))		N/A	N/A		N/A				
☐ EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))		N/A	N/A		N/A				
TOTAL CLAIMS (37 CFR 1.16(i))		minus 20 = *				x \$80 =			
INDEPENDENT CLAIMS (37 CFR 1.16(h))		minus 3 = *				x \$420 =			
☐ 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	06/05/2019	CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE (\$)		ADDITIONAL FEE (\$)	
	Total (37 CFR 1.16(i))	* 18	Minus	** 21	= 0	x \$100 =		0	
	Independent (37 CFR 1.16(h))	* 4	Minus	*** 4	= 0	x \$460 =		0	
	☐ Application Size Fee (37 CFR 1.16(s))								
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))								
						TOTAL ADD'L FEE		0	
AMENDMENT		CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE (\$)		ADDITIONAL FEE (\$)	
	Total (37 CFR 1.16(i))	*	Minus	**	=	x \$0 =			
	Independent (37 CFR 1.16(h))	*	Minus	***	=	x \$0 =			
	☐ 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.						LIE			
** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".						/ELMIRA Y HALL/			
*** 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.									

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REQUEST FOR CONTINUED EXAMINATION(RCE)TRANSMITTAL (Submitted Only via EFS-Web)							
Application Number	15/049,595	Filing Date	2016-02-22	Docket Number (if applicable)	6339.093	Art Unit	2156
First Named Inventor	Chris Barrow			Examiner Name	Truong V. Vo		
This is a Request for Continued Examination (RCE) under 37 CFR 1.114 of the above-identified application. Request for Continued Examination (RCE) practice under 37 CFR 1.114 does not apply to any utility or plant application filed prior to June 8 1995, or to any design application. The Instruction Sheet for this form is located at WWW.USPTO.GOV							
SUBMISSION REQUIRED UNDER 37 CFR 1.114							
Note: If the RCE is proper, any previously filed unentered amendments and amendments enclosed with the RCE will be entered in the order in which they were filed unless applicant instructs otherwise. If applicant does not wish to have any previously filed unentered amendment(s) entered, applicant must request non-entry of such amendment(s).							
☐ Previously submitted. If a final Office action is outstanding, any amendments filed after the final Office action may be considered as a submission even if this box is not checked. ☐ Consider the arguments in the Appeal Brief or Reply Brief previously filed on _____ ☐ Other _____							
☒ Enclosed ☒ Amendment/Reply ☐ Information Disclosure Statement (IDS) ☐ Affidavit(s)/ Declaration(s) ☒ Other _____ Extension of Time							
MISCELLANEOUS							
☐ Suspension of action on the above-identified application is requested under 37 CFR 1.103(c) for a period of months _____ (Period of suspension shall not exceed 3 months; Fee under 37 CFR 1.17(i) required) ☐ Other _____							
FEES							
☒ The RCE fee under 37 CFR 1.17(e) is required by 37 CFR 1.114 when the RCE is filed. The Director is hereby authorized to charge any underpayment of fees, or credit any overpayments, to Deposit Account No _____							
SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT REQUIRED							
☒ Patent Practitioner Signature ☐ Applicant Signature							

Signature of Registered U.S. Patent Practitioner			
Signature	/Marc A. Brockhaus/	Date (YYYY-MM-DD)	2019-06-05
Name	Marc A. Brockhaus	Registration Number	40923

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Electronic Patent Application Fee Transmittal				
Application Number:		15049595		
Filing Date:		22-Feb-2016		
Title of Invention:		INTEGRATED CENTRALIZED PROPERTY DATABASE SYSTEMS AND METHODS		
First Named Inventor/Applicant Name:		Chris Barrow		
Filer:		Marc Alan Brockhaus/Lori Martin		
Attorney Docket Number:		6339.093		
Filed as Large Entity				
Filing Fees for Utility under 35 USC 111(a)				
Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Extension - 1 month with \$0 paid	1251	1	200	200
Miscellaneous:				
RCE- 1ST REQUEST	1801	1	1300	1300
Total in USD (\$)				1500

Electronic Acknowledgement Receipt	
EFS ID:	36213752
Application Number:	15049595
International Application Number:	
Confirmation Number:	2683
Title of Invention:	INTEGRATED CENTRALIZED PROPERTY DATABASE SYSTEMS AND METHODS
First Named Inventor/Applicant Name:	Chris Barrow
Customer Number:	30589
Filer:	Marc Alan Brockhaus/Lori Martin
Filer Authorized By:	Marc Alan Brockhaus
Attorney Docket Number:	6339.093
Receipt Date:	05-JUN-2019
Filing Date:	22-FEB-2016
Time Stamp:	16:34:13
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	CARD
Payment was successfully received in RAM	\$ 1500
RAM confirmation Number	060619INTEFSW16354300
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The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:	

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			d8e79430bb082c413692c944006cf44a7d630d85		
Warnings:					
Information:					
2	Extension of Time	6339093_Extension.pdf	95629	no	1
			589de5a6abd0b6c0beeefc00d96b7fb9ea3f1dc		
Warnings:					
Information:					
3		6339093_Response.pdf	161498	yes	15
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	Document Description		Start	End	
	Applicant Arguments/Remarks Made in an Amendment		9	15	
	Claims		2	8	
	Response After Final Action		1	1	
Warnings:					
Information:					
4	Request for Continued Examination (RCE)	6339093_RCE2.pdf	239780	no	2
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5	Fee Worksheet (SB06)	fee-info.pdf	32688	no	2				
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TRANSMITTAL FORM (to be used for all correspondence after initial filing)	Application Number	15/049,595
	Filing Date	02/22/2016
	First Named Inventor	Chris Barrow
	Art Unit	2156
	Examiner Name	Truong V. Vo
Total Number of Pages in This Submission	Attorney Docket Number	6339.093

ENCLOSURES (Check all that apply)		
☐ Fee Transmittal Form	☐ Drawing(s)	☐ After Allowance Communication to TC
☐ Fee Attached	☐ Licensing-related Papers	☐ Appeal Communication to Board of Appeals and Interferences
☒ Amendment/Reply	☐ Petition	☐ Appeal Communication to TC (Appeal Notice, Brief, Reply Brief)
☒ After Final	☐ Petition to Convert to a Provisional Application	☐ Proprietary Information
☐ Affidavits/declaration(s)	☐ Power of Attorney, Revocation	☐ Status Letter
☒ Extension of Time Request	☐ Change of Correspondence Address	☒ Other Enclosure(s) (please identify below):
☐ Express Abandonment Request	☐ Terminal Disclaimer	See Remarks
☐ Information Disclosure Statement	☐ Request for Refund	
☐ Certified Copy of Priority Document(s)	☐ CD, Number of CD(s) _____	
☐ Reply to Missing Parts/Incomplete Application	☐ Landscape Table on CD	
☐ Reply to Missing Parts under 37 CFR 1.52 or 1.53	Remarks ELECTRONICALLY TRANSMITTED: 1. SB21 Transmittal Form (1 pg); 2. SB22 Extension of Time (1 pg); 3. Request for Continued Exam (2 pgs); and 4. Response (15 pgs).	

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT			
Firm Name	DUNLAP CODDING, P.C.		
Signature	/Marc A. Brockhaus/		
Printed name	Marc A. Brockhaus		
Date	06/05/2019	Reg. No.	40,923

CERTIFICATE OF TRANSMISSION/MAILING			
I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below:			
Signature	/Marc A. Brockhaus/		
Typed or printed name	Marc A. Brockhaus	Date	06/05/2019

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PETITION FOR EXTENSION OF TIME UNDER 37 CFR 1.136(a)		Docket Number (Optional) 6339.093
Application Number 15/049,595	Filed 02/22/2016	
For Chris Barrow		
Art Unit 2156	Examiner Truong V. Vo	
This is a request under the provisions of 37 CFR 1.136(a) to extend the period for filing a reply in the above-identified application. The requested extension and fee are as follows (check time period desired and enter the appropriate fee below):		
	<u>Fee</u>	<u>Small Entity Fee</u>
☒ One month (37 CFR 1.17(a)(1))	\$200	\$100
☐ Two months (37 CFR 1.17(a)(2))	\$600	\$300
☐ Three months (37 CFR 1.17(a)(3))	\$1,400	\$700
☐ Four months (37 CFR 1.17(a)(4))	\$2,200	\$1,100
☐ Five months (37 CFR 1.17(a)(5))	\$3,000	\$1,500
		<u>Micro Entity Fee</u>
		\$50
		\$150
		\$350
		\$550
		\$750
☐ Applicant asserts small entity status. See 37 CFR 1.27. ☐ Applicant certifies micro entity status. See 37 CFR 1.29. Form PTO/SB/15A or B or equivalent must either be enclosed or have been submitted previously. ☐ A check in the amount of the fee is enclosed. ☐ Payment by credit card. Form PTO-2038 is attached. ☐ The Director has already been authorized to charge fees in this application to a Deposit Account. ☐ The Director is hereby authorized to charge any fees which may be required, or credit any overpayment, to Deposit Account Number _____ ☒ Payment made via EFS-Web.		
WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.		
I am the ☐ applicant. ☒ attorney or agent of record. Registration number <u>40,923</u> ☐ attorney or agent acting under 37 CFR 1.34. Registration number _____		
<u>/Marc A. Brockhaus/</u> Signature	<u>06/05/2019</u> Date	
<u>Marc A. Brockhaus</u> Typed or printed name	<u>405-607-8600</u> Telephone Number	
NOTE: This form must be signed in accordance with 37 CFR 1.33. See 37 CFR 1.4 for signature requirements and certifications. Submit multiple forms if more than one signature is required, see below*.		

☐ * Total of _____ forms are submitted.

This collection of information is required by 37 CFR 1.136(a). The information is required to obtain or retain a benefit by the public, which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 6 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

REMARKS

This is intended to be a complete response to the Office Action mailed February 5, 2019. In the Office Action, claims 1-5, 7-10, 12-16, and 18-21 were rejected. Claims 1-5, 7-10, 12-16, and 18-21 are pending in the application, with claims 1, 10, 14, and 21 being independent. Claims 6, 11, and 17 were previously cancelled. Claims 1-3, 10, 12-16, 19, and 21 have been amended. The amendments are supported at least in paragraphs [0002], [0006], [0011], [0012]-[0014], and [0016] of the present application as published. No new matter has been added.

Respectfully, Applicant does not acquiesce in the correctness of the rejections or objections and reserves the right to present specific arguments regarding any rejected or objected-to claims not specifically addressed. Further, Applicant reserves the right to pursue the full scope of the subject matter of the claims prior to amendment herein in a subsequent patent application that claims priority to the instant application.

Based on the preceding amendments and the following remarks, Applicant respectfully requests reconsideration and withdrawal of the rejections and the issuance of a timely notice of allowance for all pending claims.

Claim Rejection – 35 U.S.C. § 103(a)

Claims 1-5, 7-10, 12-16, and 18-21 were rejected under 35 U.S.C. § 103(a) as unpatentable as obvious over Tolman et al. (US 2016/0210326) in view of Steimle et al. (US 9,927,941 B2). For at least the reasons set forth below, Applicant respectfully submits that the currently pending claims are not made obvious by the cited references.

Generally, Tolman discloses “techniques for homogenizing query instructions of a new database query to enable identification of the cached earlier results of a similar earlier database query.” Tolman paragraph [0025]. “The resulting homogenized instructions may then be used as the basis to identify a previous logically similar database query, thereby enabling the results of that earlier query to be used again as the basis of the new results for the new database query.” *Id.* In other words, Tolman re-uses query results, even when similar queries differ to some extent (such as in expressions or syntax as described in paragraph [0046]), to reduce the amount of time and resources need to perform searches. *See, for example*, paragraphs [0025] and [0041].

Regarding independent claim 1, the Office Action states that paragraph [0065] of Tolman teaches storing a plurality of data items in a data aggregation system, each of the plurality of data items being associated with one or more location identifiers of a particular geographic point on earth, citing “portions of data and/or individual data items may be referenced through an index system that may include a row and/or a column along which each location is referred to with a label that may be made up of one or more text characters that are indicative of the what data items are associated with that location.” Office Action page 3 citing paragraph [0065].

Applicant respectfully disagrees. Tolman does not expressly or inherently describe storing a plurality of data items in a data aggregation system, each of the plurality of data items *being associated with one or more geographic location identifiers of a particular geographic point on earth*, as recited in amended claim 1. Paragraph

[0065] of Tolman discusses organization of a data set “based on labels used as part of the indexing scheme” and describes a “location” that is a location *within that data set*, not geographic identifiers of a particular *geographic point on earth*.

The Office Action also states that paragraph [0076] of Tolman teaches receiving, by at least one processor, a query regarding a geographic location, “i.e., the geographic location of the query device 100 and/or other identifying information associated with the query device 100, itself, may serve as a proxy for explicit identification of the user of the query device 100 that may be provided by the user of the query device 100.” Office Action at page 3, citing paragraph [0076].

Applicant respectfully disagrees and submits that the cited paragraph discloses not receiving a query regarding a geographic location, but rather *using* “the geographic location of the *query device 100*...as a proxy for explicit identification of the user of the query device 100.” Paragraph [0076], emphasis added. This information is then used to identify the user so that the security component can “retrieve from the data set 330 permissions data 338 that specifies what portion(s) of the data set 330 the user of the query device 100 has permission to access.” Paragraph [0076].

Specifically, the Tolman system has a “security component 5468 to retrieve indications of the security permissions of the user of the query device.” *Id.* One of these indications is “the geographic location of the *query device*.” *Id.*, emphasis added. This may serve as a proxy “for explicit identification of the user of the query device 100 that may be provided by the user of the query device 100.” Therefore, the Tolman system may retrieve the geographic location of the device rather than having user identification

provided to it for security purposes. Thus, Tolman does not disclose receiving a query regarding a geographic location.

The Office Action further states that paragraph [0031] of Tolman teaches retrieving, from the data aggregation system, data items having associated location identifiers matching the received geographic location. Applicant respectfully disagrees and submits that paragraph [0031] makes no mention of data items having associated geographic location identifiers matching the received geographic location. Rather, paragraph [0031] discusses “a further part of homogenizing the query instructions” by “interpret[ing] expressions and/or syntax of the query instructions to identify and combine detail filters used in selecting portions of data to use in generating the new results as part of searching for those portions of data in a data set.” In other words, the paragraph is describing how to construct data filters in a particular manner.

Applicant agrees with the Examiner that Tolman does not disclose the element wherein at least a portion of the plurality of data items stored in the data aggregation system are further associated with one or more time identifiers, but disagrees that this is disclosed by Steimle. However, independent claim 1 has been amended to clarify wherein at least a portion of the plurality of data items stored in the data aggregation system are further associated with one or more time identifiers, including one or more time or time periods, indicative of a time history of an associated data item regarding the associated geographic point on earth.

Steimle discloses use of a background process that “can monitor the status of the lab devices for calculating a statistical result.” Col. 17, lines 12-14. “The statistical

result can be indicative of the average time period until a particular consumable needs to be refilled.” Col. 17, lines 14-16. This indicates that Steimle discloses calculating an average time period for refilling consumables, not a system in which at least a portion of the plurality of data items stored in the data aggregation system are further associated with one or more time identifiers, including one or more time or time periods, indicative of a time history of an associated data item regarding the associated geographic point on earth.

Therefore, Applicant respectfully submits that Tolman and Steimle, either alone or in combination, do not teach or suggest the elements of pending independent claim 1.

Regarding dependent claim 3, the Office Action states that paragraph [0041] of Tolman teaches wherein the one or more location identifiers further include at least one of a height above or a depth below the surface of the earth. Applicant respectfully disagrees and submits that paragraph [0041] is simply giving examples of historical data and current data used to derive predictions, but none of the examples expressly or inherently describe location identifiers including height above or a depth below the surface of the earth. For example, Tolman states that of “data from earlier earthquakes” can be used “alongside other newer or more current data...to derive a prediction of what is deemed most likely to occur next,” such as “an expected larger earthquake tremor.” Tolman does not teach or suggest geographic location identifiers that include at least one of a height above or a depth below the surface of the earth, as recited in amended claim 3.

Regarding claim 6, Applicant respectfully submits that the rejection of claim 6 on page 7 of the Office Action is moot as claim 6 was previously cancelled.

Regarding dependent claim 7, the Office Action states that paragraph [0081] discloses wherein time information includes one or more time periods. Tolman paragraph [0081] discloses updating the results cache and removing entries in the results cache that are present for more than a predetermined period of time. This does not, however, expressly or inherently describe “wherein the time information *of the query* includes one or more time periods” as recited in claim 7 in relation to claim 1.

Applicant respectfully submits that the arguments regarding Tolman and independent claim 1 apply equally to independent claims 10, 14, and 21, which contain similar elements, though differing in scope from independent claim 1, and are incorporated herein.

Further, regarding dependent claims 2-5, 8, 9, 12, 13, 15, 16, and 18-20, Applicant notes that a dependent claim incorporates by reference all of the limitations of any independent claim from which it depends.¹ The Federal Circuit Court has indicated that “limitation” refers to the claim language.² A dependent claim cannot be found to be anticipated or obvious under 35 U.S.C. §§ 102 or 103 if its parent claim, itself either an independent claim or a parent but dependent claim, is found unanticipated or unobvious.³ Therefore, Applicant respectfully submits that the

¹ 35 U.S.C. § 112 ¶ 4

² *Lockheed Martin Corp. v. Space Sys./Loral, Inc.*, 324 F.3d 1308, 1322 (Fed. Cir. 2003).

³ *Comaper Corp. v. Antec, Inc.*, 596 F.3d 1343, 93 U.S.P.Q.2d (BNA) 1873 (Fed. Cir. 2010).

allowability of independent claims 1, 10, and 14 overcomes the rejection of claims 2-5, 7-9, 12, 13, 15, 16, and 18-20, which depend thereon.

In light of the foregoing, reconsideration and withdrawal of the rejection of claims 1-5, 7-10, 12-16, and 18-21 under pre-AIA 35 U.S.C. § 103(a), as applicable to the currently pending claims, is respectfully requested.

CONCLUSION

The foregoing is intended to be a complete response to the Office Action dated February 5, 2019. Applicant respectfully requests reconsideration and withdrawal of the rejections set forth in the Office Action and a timely notice of allowance for all of the pending claims. Should the Examiner have any questions or comments regarding the foregoing, or any other matter, the undersigned would welcome a telephonic interview with the Examiner.

Respectfully submitted,

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Attorney for Applicant

Amendments to the Claims:

The following listing of claims supersedes and replaces all prior versions in the patent application.

Listing of Claims:

1. (Currently amended) A method, comprising:

storing a plurality of data items in a data aggregation system, each of the plurality of data items being associated with one or more geographic location identifiers of a particular geographic point on earth, wherein at least a portion of the plurality of data items stored in the data aggregation system are further associated with one or more time identifiers including one or more time or time periods, indicative of a time history of an associated data item regarding the associated geographic point on earth;

receiving, by at least one processor, a query regarding a geographic location and including time information;

retrieving, from the data aggregation system, data items having associated geographic location identifiers matching the received geographic location and having associated time identifiers matching the received time information; and

outputting the retrieved data items.

2. (Currently amended) The method of claim 1, wherein the one or more geographic location identifiers include latitude and longitude coordinates of a surface of the earth.

3. (Currently amended) The method of claim 2, wherein the one or more geographic location identifiers further include at least one of a height above or a depth below the surface of the earth.

4. (Original) The method of claim 1, wherein the received geographic location includes a region on the earth.

5. (Original) The method of claim 4, wherein the region on the earth is identified by multiple geocoded locations, the multiple geocoded locations described in at least latitude and longitude coordinates.

6. (Cancelled)

7. (Previously presented) The method of claim 1, wherein the time information of the query includes one or more time periods.

8. (Original) The method of claim 1, wherein the one or more location identifiers include content external to the data aggregation system.

9. (Original) The method of claim 1, wherein the stored data items include at least one of: tax data, building code data, weather data, insurance data, crime data, survey data, school data, demographic data and property data.

10. (Currently amended) A system, comprising:

- a computer processor;
- a memory coupled to the processor; and
- an integrated centralized property database, the processor being configured to:
 - receive from a user computer a query including a geographic location identifier, the geographic location identifier including one of a geocoded location and multiple geocoded locations identifying a polygon,
 - receive from the user computer a time period identifier including one or more time or time periods, indicative of a time history of an associated data item regarding the associated geographic point on earth,
 - retrieve from the integrated centralized property database location data, the location data including data associated with the geographic location identifier of a geographic location on the earth, and associated with the received time period identifier, and
 - provide the retrieved location data to the user computer via a graphical user interface.

11. (Cancelled)

12. (Currently amended) The system of claim 10, the processor further configured to:

retrieve parcel information from the integrated centralized property database;
compare the retrieved parcel information with the location data to determine
parcels associated with the geographic location identifier; and
output the parcels associated with the geographic location identifier.

13. (Currently amended) The system of claim 12, the processor further configured to:

retrieve insurance policy information from the integrated centralized property
database;
compare the retrieved insurance policy information with the parcels associated
with the geographic location identifier to determine the insurance
policies associated with the geographic location identifier; and
output the insurance policies associated with the geographic location identifier.

14. (Currently amended) A system, comprising:
an integrated centralized property database stored on computer-readable
storage media, the integrated centralized property database including a
plurality of data items, each of the plurality of data items being

associated with one or more geographic location identifiers indicating a particular geographic point on earth, and at least a portion of the plurality of data items further being associated with one or more time identifiers including one or more time or time periods, indicative of a time history of an associated data item regarding the associated geographic point on earth;

at least one computer processor communicatively coupled with the integrated centralized property database, the at least one computer processor configured to:

receive, from a user computer system, a query of a geographic location and time information indicative of the time history of an associated data item regarding the associated geographic point on earth;

retrieve, from the integrated centralized property database, data items having associated geographic location identifiers matching the received geographic location and having associated time identifiers matching the received time information; and

provide the retrieved data items to the user computer system via a graphical user interface.

15. (Currently amended) The system of claim 14, wherein the one or more geographic location identifiers include latitude and longitude coordinates.

16. (Currently amended) The system of claim 15, wherein the one or more geographic location identifiers further include Z-axis coordinates, wherein the Z-axis coordinates are indicative of location above or below a surface of the earth.

17. (Cancelled)

18. (Previously presented) The system of claim 14, wherein the time identifier includes one or more time periods.

19. (Currently amended) The system of claim 14, wherein the one or more geographic location identifiers are associated with content external to the system.

20. (Original) The system of claim 14, wherein the stored data items include at least one of: tax data, building code data, weather data, insurance data, crime data, survey data, school data, demographic data and property data.

21. (Currently amended) A system, comprising:
means for storing a plurality of data items in a data aggregation system, each of the plurality of data items being associated with one or more geographic location identifiers indicating a particular geographic point on earth, and at least a portion of the plurality of data items further being associated with one or more time identifiers including one or more time or time

periods, indicative of a time history of an associated data item regarding the associated geographic point on earth;

means for receiving a query regarding a geographic location and time information indicative of the time history of an associated data item regarding the associated geographic point on earth;

means for retrieving data items having associated geographic location identifiers matching the received geographic location and having associated time identifiers matching the received time information; and

means for outputting the retrieved data items.

ELECTRONICALLY TRANSMITTED: 06/05/2019

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Serial No.:	15/049,595	Confirmation No.: 2683
First Named Inventor:	Chris Barrow	
Filed:	02/22/2016	
Art Unit:	2156	
Examiner:	VO, TRUONG V	
Title:	Integrated Centralized Property Database Systems and Methods	
Docket No.:	6339.093	
Customer No.:	30589	

RESPONSE

The following is being submitted in response to the Office Action dated
February 5, 2019:

Amendments to the Claims as shown in the Listing of Claims begin on page **2**.

Remarks begin on page **9** of this paper.



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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
15/049,595	02/22/2016	Chris Barrow	6339.093	2683
30589 7590 06/11/2019 DUNLAP CODDING, P.C. PO BOX 16370 OKLAHOMA CITY, OK 73113			EXAMINER VO, TRUONG V	
			ART UNIT 2156	PAPER NUMBER
			NOTIFICATION DATE 06/11/2019	DELIVERY MODE ELECTRONIC

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

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

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

docketing@dunlapcoddington.com

Office Action Summary	Application No. 15/049,595	Applicant(s) Barrow et al.	
	Examiner TRUONG V VO	Art Unit 2156	AIA (FITF) Status Yes

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

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTHS FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).

Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) ☒ Responsive to communication(s) filed on 6/5/2019.
 ☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on ____.

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

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

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

Disposition of Claims*

5) ☒ Claim(s) 1-5,7-10,12-16 and 18-21 is/are pending in the application.
 5a) Of the above claim(s) ____ is/are withdrawn from consideration.

6) ☐ Claim(s) ____ is/are allowed.

7) ☒ Claim(s) 1-5,7-10,12-16 and 18-21 is/are rejected.

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

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

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

Application Papers

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

11) ☒ The drawing(s) filed on 02/22/2016 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

Priority under 35 U.S.C. § 119

12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
Certified copies:
 a) ☐ All b) ☐ Some** c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. ____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

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

Attachment(s)

1) ☒ Notice of References Cited (PTO-892)

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

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

DETAILED ACTION

Notice of Pre-AIA or AIA Status

1. The present application, filed on or after March 16, 2013, is being examined under the first inventor to file provisions of the AIA.
2. This action is in response to communications filed June 5, 2019.

Continued Examination Under 37 CFR 1.114

3. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on June 5, 2019 has been entered.

Response to Arguments

4. Applicant's arguments with respect to claims 1-5, 7-10, 12-16, and 18-21 have been considered but are moot in view of new ground(s) of rejection.

Status of Claims

5. Claims 1-5, 7-10, 12-16, and 18-21 are pending, of which claims 1, 10, 14 and 21 are in independent form. Claims 1-5, 7-10, 12-16, and 18-21 are rejected under 35 U.S.C. 103(a).

Claim Rejections - 35 USC § 103

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

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

7. Claims 1-5, 7-10, 12-16, and 18-21 are rejected under 35 U.S.C. 103(a) as being unpatentable over (2016/0210326 A1) in view of Iwamura et al. (US 2009/0063424 A1).

8. **Regarding claim 1**, Tolman teaches storing a plurality of data items in a data aggregation system, each of the plurality of data items being associated with one or more geographic location identifiers of a particular geographic point on earth (i.e., portions of data and/or individual data items may be referenced through an index system that may include a row and/or a column along which each location is referred to with a label that may be made up of one or more text characters that are indicative of the what data items are associated with that location; [0065]).

Tolman teaches receiving, by at least one processor, a query regarding a geographic location (i.e., the geographic location of the query device 100 and/or other identifying information associated with the query device 100, itself, may serve as a proxy for explicit identification of the user of the query device 100 that may be provided by the user of the query device 100; [0076]).

Tolman teaches retrieving, from the data aggregation system, data items having associated geographic location identifiers matching the received geographic location

(i.e., the post -aggregation filters used in selecting results of one or more aggregation operations to be included in the new results of performing the new database query may also be identified and combined. By way of example, instructions specifying the selection of the values of one or more averaging, summation and/or other aggregation operation based on the results of comparing numeric values may be gathered together and assembled into a single post -aggregation filter. In so doing, the various operands employed in specifying those post -aggregation filters may be reordered in accordance with one or more canonical rules; [0031]).

Tolman teaches outputting the retrieved data items (i.e., An instruction hash may then be taken of the homogenized form of the query instructions for comparison to one or more instruction hashes taken of homogenized forms of earlier query instructions of one or more earlier database queries to identify a match there among. If such a match is found, then the cached results from the performance of the matching earlier database query may be retrieved from a results cache in less time and using fewer resources than would be required to perform the new database query. A reversal of the homogenization performed on the query instructions may then be performed on the retrieved cached results to generate new results for the new database query; [0025]).

However, Tolman does not explicitly disclose wherein at least a portion of the plurality of data items stored in the data aggregation system are further associated with one or more time identifiers including one or more time or time periods, indicative of a time history of an associated data item regarding the associated geographic point on earth.

Meanwhile, Iwamura teaches a geographic information system using map data including configuration data provided with time information and attribute data corresponding to an attribute of an object contained in the map data; [Abstract]. This is similar to Tolman teaching because of a renaming component to homogenized query instructions for retrieving data items from a data set organized using index labels by identifying a declaration instruction associating an object; [Abstract].

Iwamura teaches wherein at least a portion of the plurality of data items stored in the data aggregation system are further associated with one or more time identifiers including one or more time or time periods, indicative of a time history of an associated data item regarding the associated geographic point on earth (i.e., graphic configuration data of a previously existing building is not discarded but is stored with time information (time period of existence, specifically, start time and end time) being added thereto. When retrieval is performed with a configuration and/or an attribute, the previous graphic configuration and/or attribute are/is retrieved by referring to the time information in addition to the current graphic configuration and/or attribute to confirm the existence of the object building; [0029] The history list creation module 109 contains the graphic configuration data retrieved by the spatial-temporal configuration data retrieval module 106 and the attribute data retrieved by the spatial-temporal attribute data retrieval module 111 to create a history list obtained by arranging those retrieved pieces of data according to the time information; [0053]).

It would have been obvious to one of ordinary skill in the art at the time of the invention was made, having the teachings of Tolman and Iwamura before him/her, to modify the method of Tolman with the teaching of Iwamura to improve searching. The

motivation to combine is apparent in Tolman's reference, because of the query instructions define a plurality of detail filters to be employed prior to execution of instructions within the query instructions that perform aggregation; (see Tolman, [0011]). Therefore, it would be advantageous to acquire the positional information (coordinate of a position) from a position measurement device such as the global positioning system (GPS) to acquire a name serving as a search key of the attribute; (see Iwamura, [0052]).

9. **Regarding claim 2**, Tolman teaches wherein the one or more location identifiers include latitude and longitude coordinates of a surface of the earth (i.e., `<Lookup property="latitude" externalSource="us.primary.names"/>` `<Lookup property="longitude">`; [0066]).

10. **Regarding claim 3**, Tolman teaches wherein the one or more location identifiers further include at least one of a height above or a depth below the surface of the earth (i.e., By way of example, data from a database of historical data (e.g., historical market data, data from earlier earthquakes, data gathered from earlier vehicular crash tests, etc.) may be used alongside other newer or more current data (e.g., current market activity, measurements of new earthquake tremors, engineering data concerning a proposed vehicle redesigned, etc.) to derive a prediction of what is deemed most likely to occur next (e.g., an important market shift, an expected larger earthquake tremor, a prediction about crash testing the redesigned vehicle, etc.); [0041]).

11. **Regarding claim 4**, Tolman teaches wherein the received geographic location includes a region on the earth (i.e., <BusinessItemFolder label=""> ##STR00002## ##STR00003## ##STR00004## <DataItem name="bi35" xref="REGION"/> <DataItem name="bi47" xref="COST"/> </BusinessItemFolder> </DataSource> </DataSources>; [0061]).

12. **Regarding claim 5**, Tolman teaches wherein the region on the earth is identified by multiple geocoded locations, the multiple geocoded locations described in at least latitude and longitude coordinates (i.e., <GeoInfo geoType="external" coordinateSpace="WGS84"> <Lookup property="latitude" externalSource="us.primary.names"/> <Lookup property=" longitude" externalSource="us.primary.names"/> <Lookup property="polygonId" externalSource="us.primary.names"/> <Lookup property="mapId"; [0066]).

13. **Regarding claim 6**, Tolman teaches wherein at least a portion of the plurality of data items stored in the data aggregation system are further associated with one or more time identifiers, the method further comprising: receiving, by the at least one processor, a query regarding time information, wherein retrieving from the data aggregation system further includes retrieving data items having associated time identifiers matching the received time information (i.e., More precisely, the reordering component 5455 may identify each instruction that employs the result of a comparison between two or more numeric values as the basis for selecting one or more numeric

values resulting from one or more aggregation operations performed on the one or more data set portions 333 to become part of the results data 730. The reordering component 5455 may then combine all of the identified ones of such instructions into a single post-aggregate filter where the different comparisons may be combined with one or more AND operators and/or one or more other operators; [0071]).

14. **Regarding claim 7**, Tolman teaches wherein the time information includes one or more time periods (i.e., the updating component 5462 may selectively remove one or more entries in accordance with one or more cache policies to prevent the contents of the results cache 570 from becoming stale. By way of example, entries present within the results cache 570 for more than a predetermined period of time may be removed; [0081]).

15. **Regarding claim 8**, Tolman teaches wherein the one or more location identifiers include content external to the data aggregation system (i.e., More specifically, as depicted, the storage 960 may include one or more of a volatile storage 961 (e.g., solid state storage based on one or more forms of RAM technology), a non-volatile storage 962 (e.g., solid state, ferromagnetic or other storage not requiring a constant provision of electric power to preserve their contents), and a removable media storage 963 (e.g., removable disc or solid state memory card storage by which information may be conveyed between computing devices); [0114]).

16. **Regarding claim 9**, Tolman teaches wherein the stored data items include at least one of: tax data, building code data, weather data, insurance data, crime data, survey data, school data, demographic data and property data (i.e., the performance of a database query may require portions of data to be searched for and retrieved from a relatively large data set stored among multiple storage devices, and may then further require the performance of various filter and/or aggregation calculations on a large quantity of data items to generate the results of the database query. Given the considerable size of many data sets and of the portions of data to be searched for and retrieved from such data sets (e.g., data sets that may be made up of billions of data items and that may be stored across numerous storage devices), performing a database query may entail considerable use of processing, memory, and other resources of multiple devices, as well as considerable use of multiple network connections among those multiple devices; [0026]).

17. **Regarding claims 10-21**. Claim 10-21 are essentially the same as the rejected claims above and rejected for the same reasons as applied hereinabove.

Conclusion

18. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP

§ 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

19. Any inquiry concerning this communication or earlier communications from the Examiner should be directed to TRUONG V VO whose telephone number is (571)272-1796. The Examiner can normally be reached on 7am-5pm M-Thr.

If attempts to reach the Examiner by telephone are unsuccessful, the Examiner's supervisor, Sherief Badawi can be reached on (571) 272-9782. 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

Application/Control Number: 15/049,595
Art Unit: 2156

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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.

June 6, 2019

Truong Van Vo
/TRUONG V VO/
Primary Examiner, Art Unit 2156

Notice of References Cited	Application/Control No. 15/049,595		Applicant(s)/Patent Under Reexamination Barrow et al.	
	Examiner TRUONG V VO		Art Unit 2156	Page 1 of 1

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	CPC Classification	US Classification
*	A	US-20160210326-A1	07-2016	TOLMAN; KENNETH	G06F16/24539	1/1
*	B	US-20090063424-A1	03-2009	Iwamura; Kazuaki	G06F16/29	1/1
	C					
	D					
	E					
	F					
	G					
	H					
	I					
	J					
	K					
	L					
	M					

FOREIGN PATENT DOCUMENTS

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

NON-PATENT DOCUMENTS

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

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

U.S. Patent and Trademark Office
PTO-892 (Rev. 01-2001)

Notice of References Cited

Part of Paper No. 20190606a

Search Notes 	Application/Control No. 15/049,595	Applicant(s)/Patent Under Reexamination Barrow et al.
	Examiner TRUONG V VO	Art Unit 2156

CPC - Searched*		
Symbol	Date	Examiner
G06F17/30 OR G06F17/3053 OR G06F17/30554 OR G06F17/30864 OR G06F17/30867...	06/06/2019	TV

CPC Combination Sets - Searched*		
Symbol	Date	Examiner

US Classification - Searched*			
Class	Subclass	Date	Examiner

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

Search Notes		
Search Notes	Date	Examiner
EAST	06/06/2019	TV
Inventorship Searched for potential DP	06/06/2019	TV

Interference Search			
US Class/CPC Symbol	US Subclass/CPC Group	Date	Examiner

/TRUONG V VO/ Primary Examiner, Art Unit 2156	
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<i>Index of Claims</i> 	Application/Control No. 15/049,595	Applicant(s)/Patent Under Reexamination Barrow et al.
	Examiner TRUONG V VO	Art Unit 2156

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

CLAIMS										
☐ Claims renumbered in the same order as presented by applicant ☐ CPA ☐ T.D. ☐ R.1.47										
CLAIM		DATE								
Final	Original	06/16/2018	01/30/2019	06/06/2019						
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	2	✓	✓	✓						
	3	✓	✓	✓						
	4	✓	✓	✓						
	5	✓	✓	✓						
	6	✓	-	-						
	7	✓	✓	✓						
	8	✓	✓	✓						
	9	✓	✓	✓						
	10	✓	✓	✓						
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	19	✓	✓	✓						
	20	✓	✓	✓						
	21	✓	✓	✓						

EAST Search History

EAST Search History (Prior Art)

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S32	2	"20160210326"	US-PGPUB; USPAT	ADJ	OFF	2019/01/30 13:23
S33	2	"20160210326"	US-PGPUB; USPAT	ADJ	OFF	2019/01/30 13:25

6/ 6/ 2019 8:06:20 PM

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PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875				Application or Docket Number 15/049,595		Filing Date 02/22/2016		☐ To be Mailed	
ENTITY: ☒ LARGE ☐ SMALL ☐ MICRO									
APPLICATION AS FILED - PART I									
FOR		(Column 1) NUMBER FILED	(Column 2) NUMBER EXTRA		RATE (\$)		FEE (\$)		
☐ BASIC FEE (37 CFR 1.16(a), (b), or (c))		N/A	N/A		N/A				
☐ SEARCH FEE (37 CFR 1.16(k), (i), or (m))		N/A	N/A		N/A				
☐ EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))		N/A	N/A		N/A				
TOTAL CLAIMS (37 CFR 1.16(i))		minus 20 = *				x \$80 =			
INDEPENDENT CLAIMS (37 CFR 1.16(h))		minus 3 = *				x \$420 =			
☐ 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	12/11/2019	(Column 1) CLAIMS REMAINING AFTER AMENDMENT		(Column 2) HIGHEST NUMBER PREVIOUSLY PAID FOR	(Column 3) PRESENT EXTRA	RATE (\$)		ADDITIONAL FEE (\$)	
	Total (37 CFR 1.16(i))	* 18	Minus	** 21	= 0	x \$100 =		0	
	Independent (37 CFR 1.16(h))	* 4	Minus	*** 4	= 0	x \$460 =		0	
	☐ Application Size Fee (37 CFR 1.16(s))								
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))								
						TOTAL ADD'L FEE		0	
AMENDMENT		(Column 1) CLAIMS REMAINING AFTER AMENDMENT		(Column 2) HIGHEST NUMBER PREVIOUSLY PAID FOR	(Column 3) PRESENT EXTRA	RATE (\$)		ADDITIONAL FEE (\$)	
	Total (37 CFR 1.16(i))	*	Minus	**	=	x \$0 =			
	Independent (37 CFR 1.16(h))	*	Minus	***	=	x \$0 =			
	☐ 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.						LIE			
** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".						/FREDERICK E BRISCOE/			
*** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3".									
The "Highest Number Previously Paid For" (Total or Independent) is the highest number found in the appropriate box in column 1.									

This collection of information is required by 37 CFR 1.16. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**
If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

ELECTRONICALLY TRANSMITTED: DECEMBER 11, 2019

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Serial No.:	15/049,595	Confirmation No.: 2683
First Named Inventor:	Chris Barrow	
Filed:	02/22/2016	
Art Unit:	2156	
Examiner:	VO, TRUONG V	
Title:	Integrated Centralized Property Database Systems and Methods	
Docket No.:	6339.093	
Customer No.:	30589	

RESPONSE

The following is being submitted in response to the Office Action dated June 11, 2019:

Listing of Claims begins on page **2**.

Remarks begin on page **9** of this paper.

PETITION FOR EXTENSION OF TIME UNDER 37 CFR 1.136(a)		Docket Number (Optional) 6339.093
Application Number 15/049,595	Filed 02/22/2016	
For Chris Barrow		
Art Unit 2156	Examiner Truong V. Vo	
This is a request under the provisions of 37 CFR 1.136(a) to extend the period for filing a reply in the above-identified application. The requested extension and fee are as follows (check time period desired and enter the appropriate fee below):		
	<u>Fee</u>	<u>Small Entity Fee</u>
☐ One month (37 CFR 1.17(a)(1))	\$200	\$100
☐ Two months (37 CFR 1.17(a)(2))	\$600	\$300
☒ Three months (37 CFR 1.17(a)(3))	\$1,400	\$700
☐ Four months (37 CFR 1.17(a)(4))	\$2,200	\$1,100
☐ Five months (37 CFR 1.17(a)(5))	\$3,000	\$1,500
		<u>Micro Entity Fee</u>
		\$50
		\$150
		\$350
		\$1400.00
☐ Applicant asserts small entity status. See 37 CFR 1.27. ☐ Applicant certifies micro entity status. See 37 CFR 1.29. Form PTO/SB/15A or B or equivalent must either be enclosed or have been submitted previously. ☐ A check in the amount of the fee is enclosed. ☐ Payment by credit card. Form PTO-2038 is attached. ☐ The Director has already been authorized to charge fees in this application to a Deposit Account. ☐ The Director is hereby authorized to charge any fees which may be required, or credit any overpayment, to Deposit Account Number _____ ☒ Payment made via EFS-Web.		
WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.		
I am the ☐ applicant. ☒ attorney or agent of record. Registration number <u>40,923</u> ☐ attorney or agent acting under 37 CFR 1.34. Registration number _____		
<u>/Marc A. Brockhaus/</u> Signature	<u>12/11/2019</u> Date	
<u>Marc A. Brockhaus</u> Typed or printed name	<u>405-607-8600</u> Telephone Number	
NOTE: This form must be signed in accordance with 37 CFR 1.33. See 37 CFR 1.4 for signature requirements and certifications. Submit multiple forms if more than one signature is required, see below*.		

☐ * Total of _____ forms are submitted.

This collection of information is required by 37 CFR 1.136(a). The information is required to obtain or retain a benefit by the public, which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 6 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Electronic Patent Application Fee Transmittal				
Application Number:		15049595		
Filing Date:		22-Feb-2016		
Title of Invention:		INTEGRATED CENTRALIZED PROPERTY DATABASE SYSTEMS AND METHODS		
First Named Inventor/Applicant Name:		Chris Barrow		
Filer:		Marc Alan Brockhaus/Lori Martin		
Attorney Docket Number:		6339.093		
Filed as Large Entity				
Filing Fees for Utility under 35 USC 111(a)				
Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Extension - 3 months with \$0 paid	1253	1	1400	1400
Miscellaneous:				
Total in USD (\$)				1400

Electronic Acknowledgement Receipt	
EFS ID:	37999812
Application Number:	15049595
International Application Number:	
Confirmation Number:	2683
Title of Invention:	INTEGRATED CENTRALIZED PROPERTY DATABASE SYSTEMS AND METHODS
First Named Inventor/Applicant Name:	Chris Barrow
Customer Number:	30589
Filer:	Marc Alan Brockhaus/Lori Martin
Filer Authorized By:	Marc Alan Brockhaus
Attorney Docket Number:	6339.093
Receipt Date:	11-DEC-2019
Filing Date:	22-FEB-2016
Time Stamp:	15:21:37
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	CARD
Payment was successfully received in RAM	\$ 1400
RAM confirmation Number	E2019BAF22202778
Deposit Account	
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Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Transmittal Letter	6339093_Transmittal.pdf	156103	no	1
			97693ad572c0533d011febef5ed9c8460f668810		
Warnings:					
Information:					
2		6339093_Response.pdf	167419	yes	16
			485b0635eb1d2f31516cc27f4367f78d53dba20f		
	Multipart Description/PDF files in .zip description				
	Document Description		Start	End	
	Applicant Arguments/Remarks Made in an Amendment		9	16	
	Claims		2	8	
	Amendment/Req. Reconsideration-After Non-Final Reject		1	1	
Warnings:					
Information:					
3	Extension of Time	6339093_Extension.pdf	82103	no	1
			d9af7f1614f9cc453352ef03d238f4d0549f9276		
Warnings:					
Information:					
4	Fee Worksheet (SB06)	fee-info.pdf	30900	no	2
			1ea17ee7bec567c2a99accd63ef8e4632f134042		
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TRANSMITTAL FORM (to be used for all correspondence after initial filing)	Application Number	15/049,595
	Filing Date	02/22/2016
	First Named Inventor	Chris Barrow
	Art Unit	2156
	Examiner Name	Truong V. Vo
Total Number of Pages in This Submission	Attorney Docket Number	6339.093

ENCLOSURES (Check all that apply)		
☐ Fee Transmittal Form	☐ Drawing(s)	☐ After Allowance Communication to TC
☐ Fee Attached	☐ Licensing-related Papers	☐ Appeal Communication to Board of Appeals and Interferences
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	2. SB22 Extension of Time (1 pg); and	
	3. Response (16 pgs).	

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT			
Firm Name	DUNLAP CODDING, P.C.		
Signature	/Marc A. Brockhaus/		
Printed name	Marc A. Brockhaus		
Date	12/11/2019	Reg. No.	40,923

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REMARKS

This is intended to be a complete response to the Office Action mailed June 11, 2019. In the Office Action, claims 1-5, 7-10, 12-16, and 18-21 were rejected. Claims 1-5, 7-10, 12-16, and 18-21 are pending in the application, with claims 1, 10, 14, and 21 being independent. Claims 6, 11, and 17 were previously cancelled. No new matter has been added.

Respectfully, Applicant does not acquiesce in the correctness of the rejections or objections and reserves the right to present specific arguments regarding any rejected or objected-to claims not specifically addressed. Further, Applicant reserves the right to pursue the full scope of the subject matter of the claims prior to amendment herein in a subsequent patent application that claims priority to the instant application.

Based on the preceding amendments and the following remarks, Applicant respectfully requests reconsideration and withdrawal of the rejections and the issuance of a timely notice of allowance for all pending claims.

Claim Rejection – 35 U.S.C. § 103(a)

Claims 1-5, 7-10, 12-16, and 18-21 were rejected under 35 U.S.C. § 103(a) as unpatentable as obvious over Tolman et al. (US 2016/0210326 A1) in view of Iwamura et al. (US 2009/0063424 A1). For at least the reasons set forth below, Applicant respectfully submits that the currently pending claims are not made obvious by the cited references.

Generally, Tolman discloses “techniques for homogenizing query instructions of a new database query to enable identification of the cached earlier results of a similar

earlier database query.” Tolman paragraph [0025]. “The resulting homogenized instructions may then be used as the basis to identify a previous logically similar database query, thereby enabling the results of that earlier query to be used again as the basis of the new results for the new database query.” *Id.* In other words, Tolman re-uses query results, even when similar queries differ to some extent (such as in expressions or syntax as described in paragraph [0046]), to reduce the amount of time and resources needed to perform searches. *See, for example,* paragraphs [0025] and [0041].

Regarding independent claim 1, the Office Action states that paragraph [0065] of Tolman teaches storing a plurality of data items in a data aggregation system, each of the plurality of data items being associated with one or more location identifiers of a particular geographic point on earth, citing “portions of data and/or individual data items may be referenced through an index system that may include a row and/or a column along which each location is referred to with a label that may be made up of one or more text characters that are indicative of the what data items are associated with that location.” Office Action page 3 citing paragraph [0065].

Applicant respectfully disagrees. Tolman does not expressly or inherently describe storing a plurality of data items in a data aggregation system, each of the plurality of data items *being associated with one or more geographic location identifiers of a particular geographic point on earth*, as recited in claim 1. Paragraph [0065] of Tolman discusses organization of a data set “based on labels used as part of the indexing

scheme” and describes a “location” that is a location *within that data set*, not *geographic* identifiers of a particular *geographic point on earth*.

The Office Action also states that paragraph [0076] of Tolman teaches receiving, by at least one processor, a query regarding a geographic location, “i.e., the geographic location of the query device 100 and/or other identifying information associated with the query device 100, itself, may serve as a proxy for explicit identification of the user of the query device 100 that may be provided by the user of the query device 100.” Office Action at page 3, citing paragraph [0076].

Applicant respectfully disagrees and submits that the cited paragraph does not disclose receiving a query regarding a geographic location, but rather *using* “the geographic location of the *query device 100*...as a proxy for explicit identification of the user of the query device 100.” Paragraph [0076], emphasis added. This information is then used to identify the user so that the security component can “retrieve from the data set 330 permissions data 338 that specifies what portion(s) of the data set 330 the user of the query device 100 has permission to access.” Paragraph [0076].

Specifically, the Tolman system has a “security component 5468 to retrieve indications of the security permissions of the user of the query device.” *Id.* One of these indications is “the geographic location of the *query device*.” *Id.*, emphasis added. This may serve as a proxy “for explicit identification of the user of the query device 100 that may be provided by the user of the query device 100.” Therefore, the Tolman system may retrieve the geographic location of the device rather than having user identification

provided to it for security purposes. Thus, Tolman does not disclose receiving a query regarding a geographic location.

The Office Action further states that paragraph [0031] of Tolman teaches retrieving, from the data aggregation system, data items having associated location identifiers matching the received geographic location. Office Action at pages 3-4. Applicant respectfully disagrees and submits that paragraph [0031] makes no mention of data items having associated geographic location identifiers matching the received geographic location. Rather, paragraph [0031] discusses “a further part of homogenizing the query instructions” by “interpret[ing] expressions and/or syntax of the query instructions to identify and combine detail filters used in selecting portions of data to use in generating the new results as part of searching for those portions of data in a data set.” In other words, the paragraph is describing how to construct data filters in a particular manner.

Applicant agrees with the Examiner that Tolman does not disclose the element “wherein at least a portion of the plurality of data items stored in the data aggregation system are further associated with one or more time identifiers including one or more time or time periods, indicative of a time history of an associated data item regarding the associated geographic point on earth,” but disagrees that this is disclosed by Iwamura.

Iwamura does not disclose “a time history of an associated data item *regarding the associated geographic point on earth*”. Rather, Iwamura discloses utilizing a time history of building configurations and other attributes such as a building name or tenant

so that users can navigate using building configurations and attributes that no longer exist. See, for example, paragraphs [0029], [0049], [0053], [0064], and [0069]-[0071] and FIG. 9. This is emphasized by how Iwamura allows a user to find the new location of a tenant, based on the tenant name. See, for example, paragraph [0132].

Additionally, even if Iwamura disclosed “at least a portion of the plurality of data items stored in the data aggregation system are further associated with one or more time identifiers including one or more time or time periods, indicative of a time history of an associated data item regarding the associated geographic point on earth”, modifying Tolman with Iwamura would impermissibly make Tolman unsatisfactory for its intended purpose and change Tolman’s principle of operation. See MPEP 2143.01, V and VI. The goal of Tolman is to “homogeniz[e] query instructions of a new database query to enable identification of the cached earlier results of a similar earlier database query.” Tolman paragraph [0025]. “The resulting homogenized instructions may then be used as the basis to identify a previous logically similar database query, thereby enabling the results of that earlier query to be used again as the basis of the new results for the new database query.” *Id.* In other words, Tolman re-uses query results, even when similar queries differ to some extent (such as in expressions or syntax as described in paragraph [0046]), to reduce the amount of time and resources needed to perform searches. *See, for example*, paragraphs [0025] and [0041]. Adding additional data parameters in the form of time identifiers including one or more time or time periods, indicative of a time history of an associated data item regarding the associated geographic point on earth would increase the amount of time and resources needed to

perform searches and introduce variation instead of homogenization to queries, thus impermissibly modifying the system of Tolman.

Therefore, Applicant respectfully submits that Tolman and Iwamura, either alone or in combination, do not teach or suggest the elements of pending independent claim 1.

Regarding dependent claim 3, the Office Action states that paragraph [0041] of Tolman teaches wherein the one or more location identifiers further include at least one of a height above or a depth below the surface of the earth. Applicant respectfully disagrees and submits that paragraph [0041] is simply giving examples of historical data and current data used to derive predictions, but none of the examples expressly or inherently describe location identifiers including height above or a depth below the surface of the earth. For example, Tolman states that of “data from earlier earthquakes” can be used “alongside other newer or more current data...to derive a prediction of what is deemed most likely to occur next,” such as “an expected larger earthquake tremor.” Tolman does not teach or suggest geographic location identifiers that include at least one of a height above or a depth below the surface of the earth, as recited in claim 3.

Regarding claim 6, Applicant respectfully submits that the rejection of claim 6 on page 7 of the Office Action is moot as claim 6 was previously cancelled.

Regarding dependent claim 7, the Office Action states that paragraph [0081] discloses wherein time information includes one or more time periods. Tolman paragraph [0081] discloses updating the results cache and removing entries in the

results cache that are present for more than a predetermined period of time. This does not, however, expressly or inherently describe “wherein the time information *of the query* includes one or more time periods” as recited in claim 7 in relation to claim 1.

Applicant respectfully submits that the arguments regarding Tolman and independent claim 1 apply equally to independent claims 10, 14, and 21, which contain similar elements, though differing in scope from independent claim 1, and are incorporated herein.

Further, regarding dependent claims 2-5, 8, 9, 12, 13, 15, 16, and 18-20, Applicant notes that a dependent claim incorporates by reference all of the limitations of any independent claim from which it depends.¹ The Federal Circuit Court has indicated that “limitation” refers to the claim language.² A dependent claim cannot be found to be anticipated or obvious under 35 U.S.C. §§ 102 or 103 if its parent claim, itself either an independent claim or a parent but dependent claim, is found unanticipated or unobvious.³ Therefore, Applicant respectfully submits that the allowability of independent claims 1, 10, and 14 overcomes the rejection of claims 2-5, 7-9, 12, 13, 15, 16, and 18-20, which depend thereon.

In light of the foregoing, reconsideration and withdrawal of the rejection of claims 1-5, 7-10, 12-16, and 18-21 under pre-AIA 35 U.S.C. § 103(a), as applicable to the currently pending claims, is respectfully requested.

¹ 35 U.S.C. § 112 ¶ 4

² *Lockheed Martin Corp. v. Space Sys./Loral, Inc.*, 324 F.3d 1308, 1322 (Fed. Cir. 2003).

³ *Comaper Corp. v. Antec, Inc.*, 596 F.3d 1343, 93 U.S.P.Q.2d (BNA) 1873 (Fed. Cir. 2010).

CONCLUSION

The foregoing is intended to be a complete response to the Office Action dated June 11, 2019. Applicant respectfully requests reconsideration and withdrawal of the rejections set forth in the Office Action and a timely notice of allowance for all of the pending claims. Should the Examiner have any questions or comments regarding the foregoing, or any other matter, the undersigned would welcome a telephonic interview with the Examiner.

Respectfully submitted,

/Marc A. Brockhaus/

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Attorney for Applicant

Listing of Claims:

The following listing of claims supersedes and replaces all prior versions in the patent application. No amendments are submitted herein. However, the listing of claims is submitted as a convenience for the Examiner.

1. (Previously presented) A method, comprising:

storing a plurality of data items in a data aggregation system, each of the plurality of data items being associated with one or more geographic location identifiers of a particular geographic point on earth, wherein at least a portion of the plurality of data items stored in the data aggregation system are further associated with one or more time identifiers including one or more time or time periods, indicative of a time history of an associated data item regarding the associated geographic point on earth;

receiving, by at least one processor, a query regarding a geographic location and including time information;

retrieving, from the data aggregation system, data items having associated geographic location identifiers matching the received geographic location and having associated time identifiers matching the received time information; and

outputting the retrieved data items.

2. (Previously presented) The method of claim 1, wherein the one or more geographic location identifiers include latitude and longitude coordinates of a surface of the earth.

3. (Previously presented) The method of claim 2, wherein the one or more geographic location identifiers further include at least one of a height above or a depth below the surface of the earth.

4. (Original) The method of claim 1, wherein the received geographic location includes a region on the earth.

5. (Original) The method of claim 4, wherein the region on the earth is identified by multiple geocoded locations, the multiple geocoded locations described in at least latitude and longitude coordinates.

6. (Cancelled)

7. (Previously presented) The method of claim 1, wherein the time information of the query includes one or more time periods.

8. (Original) The method of claim 1, wherein the one or more location identifiers include content external to the data aggregation system.

9. (Original) The method of claim 1, wherein the stored data items include at least one of: tax data, building code data, weather data, insurance data, crime data, survey data, school data, demographic data and property data.

10. (Previously presented) A system, comprising:

a computer processor;

a memory coupled to the processor; and

an integrated centralized property database, the processor being configured to:

receive from a user computer a query including a geographic location identifier, the geographic location identifier including one of a geocoded location and multiple geocoded locations identifying a polygon,

receive from the user computer a time period identifier including one or more time or time periods, indicative of a time history of an associated data item regarding the associated geographic point on earth,

retrieve from the integrated centralized property database location data, the location data including data associated with the geographic location identifier of a geographic location on the earth, and associated with the received time period identifier, and

provide the retrieved location data to the user computer via a graphical user interface.

11. (Cancelled)

12. (Previously presented) The system of claim 10, the processor further configured to:

retrieve parcel information from the integrated centralized property database;
compare the retrieved parcel information with the location data to determine
parcels associated with the geographic location identifier; and
output the parcels associated with the geographic location identifier.

13. (Previously presented) The system of claim 12, the processor further configured to:

retrieve insurance policy information from the integrated centralized property
database;
compare the retrieved insurance policy information with the parcels associated
with the geographic location identifier to determine the insurance
policies associated with the geographic location identifier; and
output the insurance policies associated with the geographic location identifier.

14. (Previously presented) A system, comprising:
an integrated centralized property database stored on computer-readable
storage media, the integrated centralized property database including a
plurality of data items, each of the plurality of data items being

associated with one or more geographic location identifiers indicating a particular geographic point on earth, and at least a portion of the plurality of data items further being associated with one or more time identifiers including one or more time or time periods, indicative of a time history of an associated data item regarding the associated geographic point on earth;

at least one computer processor communicatively coupled with the integrated centralized property database, the at least one computer processor configured to:

receive, from a user computer system, a query of a geographic location and time information indicative of the time history of an associated data item regarding the associated geographic point on earth;

retrieve, from the integrated centralized property database, data items having associated geographic location identifiers matching the received geographic location and having associated time identifiers matching the received time information; and

provide the retrieved data items to the user computer system via a graphical user interface.

15. (Previously presented) The system of claim 14, wherein the one or more geographic location identifiers include latitude and longitude coordinates.

16. (Previously presented) The system of claim 15, wherein the one or more geographic location identifiers further include Z-axis coordinates, wherein the Z-axis coordinates are indicative of location above or below a surface of the earth.

17. (Cancelled)

18. (Previously presented) The system of claim 14, wherein the time identifier includes one or more time periods.

19. (Previously presented) The system of claim 14, wherein the one or more geographic location identifiers are associated with content external to the system.

20. (Original) The system of claim 14, wherein the stored data items include at least one of: tax data, building code data, weather data, insurance data, crime data, survey data, school data, demographic data and property data.

21. (Previously presented) A system, comprising:

means for storing a plurality of data items in a data aggregation system, each of the plurality of data items being associated with one or more geographic location identifiers indicating a particular geographic point on earth, and at least a portion of the plurality of data items further being associated with one or more time identifiers including one or more time or time

periods, indicative of a time history of an associated data item regarding the associated geographic point on earth;

means for receiving a query regarding a geographic location and time information indicative of the time history of an associated data item regarding the associated geographic point on earth;

means for retrieving data items having associated geographic location identifiers matching the received geographic location and having associated time identifiers matching the received time information; and

means for outputting the retrieved data items.



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2156

DATE MAILED: 01/22/2020

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
15/049,595	02/22/2016	Chris Barrow	6339.093	2683

TITLE OF INVENTION: INTEGRATED CENTRALIZED PROPERTY DATABASE SYSTEMS AND METHODS

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	UNDISCOUNTED	\$1000	\$0.00	\$0.00	\$1000	04/22/2020

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_____ (Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
15/049,595	02/22/2016	Chris Barrow	6339.093	2683

TITLE OF INVENTION: INTEGRATED CENTRALIZED PROPERTY DATABASE SYSTEMS AND METHODS

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nonprovisional	UNDISCOUNTED	\$1000	\$0.00	\$0.00	\$1000	04/22/2020

EXAMINER	ART UNIT	CLASS-SUBCLASS
VO, TRUONG V	2156	707-722000

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☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-09 or more recent) attached. **Use of a Customer Number is required.**

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☐ 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. _____



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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
15/049,595	02/22/2016	Chris Barrow	6339,093	2683
30589	7590	01/22/2020	EXAMINER	
DUNLAP CODDING, P.C. PO BOX 16370 OKLAHOMA CITY, OK 73113			VO, TRUONG V	
			ART UNIT	PAPER NUMBER
			2156	

DATE MAILED: 01/22/2020

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 30 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450. Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Privacy Act Statement

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

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

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

Notice of Allowability	Application No. 15/049,595	Applicant(s) Barrow et al.	
	Examiner TRUONG V VO	Art Unit 2156	AIA (FITF) Status Yes

-- 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 12/11/2019.
☐ 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 See Continuation Sheet. 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)	5. ☐ Examiner's Amendment/Comment
2. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date _____.	6. ☒ Examiner's Statement of Reasons for Allowance
3. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material _____.	7. ☐ Other _____.
4. ☐ Interview Summary (PTO-413), Paper No./Mail Date. _____.	

/TRUONG V VO/ Primary Examiner, Art Unit 2156	
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Continuation of 3. The allowed claim(s) is/are: 1-5,7-10,12-16 and 18-21

DETAILED ACTION

Notice of Pre-AIA or AIA Status

1. The present application, filed on or after March 16, 2013, is being examined under the first inventor to file provisions of the AIA.
2. This is in response to application 15/049,595 filed on February 22, 2016 in which claims 1-21 are presented for examination.

Status of Claims

3. This allowance is in response to communication filed on December 11, 2019.
4. Claims 1-5, 7-10, 12-16 and 18-21 are allowed.

Reasons for Allowance

5. The following is an Examiner's statement of reasons for allowance:
Claims 1-5, 7-10, 12-16 and 18-21 are allowed.

The Applicant's arguments filed on December 11, 2019 are persuasive and thereby overcome the references cited and further searches. Thus, the record is cleared and claims 1-5, 7-10, 12-16 and 18-21 are hereby allowed.

Conclusion

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to TRUONG V VO whose telephone number is (571)272-1796. The examiner can normally be reached on 7am-5pm M-Thr.

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

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tamara Kyle can be reached on (571) 272-4241. 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.

/TRUONG V VO/
Primary Examiner, Art Unit 2156
1/15/2020

Search Notes 	Application/Control No. 15/049,595	Applicant(s)/Patent Under Reexamination Barrow et al.
	Examiner TRUONG V VO	Art Unit 2156

CPC - Searched*		
Symbol	Date	Examiner
G06F17/30 OR G06F17/3053 OR G06F17/30554 OR G06F17/30864 OR G06F17/30867...	01/15/2020	TV

CPC Combination Sets - Searched*		
Symbol	Date	Examiner

US Classification - Searched*			
Class	Subclass	Date	Examiner

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

Search Notes		
Search Notes	Date	Examiner
EAST	01/15/2020	TV
Inventorship Searched for potential DP	01/15/2020	TV
GOOGLE	01/15/2020	TV
ACM	01/15/2020	TV
IEEE	01/15/2020	TV

Interference Search			
US Class/CPC Symbol	US Subclass/CPC Group	Date	Examiner
g06f16	29	01/15/2020	TV

/TRUONG V VO/ Primary Examiner, Art Unit 2156	
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Issue Classification 	Application/Control No. 15/049,595	Applicant(s)/Patent Under Reexamination Barrow et al.
	Examiner TRUONG V VO	Art Unit 2156

CPC			
Symbol		Type	Version
G06F	/ 16 / 29	F	2019-01-01

CPC Combination Sets				
Symbol	Type	Set	Ranking	Version

NONE		Total Claims Allowed:	
(Assistant Examiner)	(Date)	18	
/TRUONG V VO/ Primary Examiner, Art Unit 2156 (Primary Examiner)	15 January 2020 (Date)	O.G. Print Claim(s) 1	O.G. Print Figure 1

U.S. Patent and Trademark Office

Part of Paper No.: 20200115

Issue Classification 	Application/Control No. 15/049,595	Applicant(s)/Patent Under Reexamination Barrow et al.
	Examiner TRUONG V VO	Art Unit 2156

INTERNATIONAL CLASSIFICATION			
CLAIMED			
G06F	/	17	/ 00

NON-CLAIMED			
/		/	

US ORIGINAL CLASSIFICATION	
CLASS	SUBCLASS

CROSS REFERENCES(S)						
CLASS	SUBCLASS (ONE SUBCLASS PER BLOCK)					

NONE (Assistant Examiner) (Date)		Total Claims Allowed: 18	
/TRUONG V VO/ Primary Examiner, Art Unit 2156 (Primary Examiner) (Date)		15 January 2020 O.G. Print Claim(s) 1	O.G. Print Figure 1

Issue Classification 	Application/Control No. 15/049,595	Applicant(s)/Patent Under Reexamination Barrow et al.
	Examiner TRUONG V VO	Art Unit 2156

☐ Claims renumbered in the same order as presented by applicant ☐ CPA ☐ T.D. ☐ R.1.47															
CLAIMS															
Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original
1	1	9	10	16	19										
2	2	10	11	17	20										
3	3		12	18	21										
4	4	11	13												
5	5	12	14												
	6	13	15												
6	7	14	16												
7	8		17												
8	9	15	18												

NONE	Total Claims Allowed:					
(Assistant Examiner)	(Date)	18				
/TRUONG V VO/ Primary Examiner, Art Unit 2156 (Primary Examiner)	15 January 2020 (Date)	<table><tr><td>O.G. Print Claim(s)</td><td>O.G. Print Figure</td></tr><tr><td>1</td><td>1</td></tr></table>	O.G. Print Claim(s)	O.G. Print Figure	1	1
O.G. Print Claim(s)	O.G. Print Figure					
1	1					

EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
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L3	756	l1 and time	US-PGPUB; USPAT	ADJ	OFF	2020/01/15; 10:51
L4	352	l1 and longitude	US-PGPUB; USPAT	ADJ	OFF	2020/01/15; 10:51
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S19	656	S15 and tax	US-PGPUB; USPAT	ADJ	OFF	2018/06/16; 22:20
S20	159	S19 and data item\$2	US-PGPUB; USPAT	ADJ	OFF	2018/06/16; 22:21
S21	159	S20 and location	US-PGPUB; USPAT	ADJ	OFF	2018/06/16; 22:22
S22	139	S21 and region	US-PGPUB; USPAT	ADJ	OFF	2018/06/16; 22:22
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S29	6	(time identifier\$2 same location\$2 and data aggregation)	US-PGPUB; USPAT	ADJ	OFF	2019/01/30 13:04
S30	38	2003/0012428	US-PGPUB; USPAT	ADJ	OFF	2019/01/30 13:22
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S32	2	"20160210326"	US-PGPUB; USPAT	ADJ	OFF	2019/01/30 13:23
S33	2	"20160210326"	US-PGPUB; USPAT	ADJ	OFF	2019/01/30 13:25
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S36	8638	(geographic\$ same time same history)	US-PGPUB;	ADJ	OFF	2020/01/15

			USPAT			09:28
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S38	124	(geographic\$ same time same history same aggregation)	US-PGPUB; USPAT	ADJ	OFF	2020/01/15 09:29
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S40	0	(stor\$5 same geographic\$2 location\$2 and aggregation and match\$5 same data item\$2)	US-PGPUB; USPAT	ADJ	OFF	2020/01/15 09:35
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S44	6577	(stor\$5 same geographic\$2 location\$2 and aggregation and match\$5)	US-PGPUB; USPAT	ADJ	OFF	2020/01/15 09:35
S45	86	(stor\$5 same geographic\$2 location\$2 and aggregation and match\$5 same data item\$2)	US-PGPUB; USPAT	ADJ	OFF	2020/01/15 09:35
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EAST Search History

EAST Search History (Prior Art)

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Index Terms

ESA Earth Observation educational tools contribution to the creation of awareness for World Heritage site conservation

F. Sarti ; M. Hernandez ; J.C. Bigot ; Steffen Dransfeld ; Ana Ruescas Orient
2010 IEEE International Geoscience and Remote Sensing Symposium
Year: 2010 | Conference Paper | Publisher: IEEE
Cited by: Papers (2)

Abstract (241 Kb)

ESA Earth Observation educational tools contribution to the creation of awareness for World Heritage site conservation

F. Sarti | M. Hernandez | J.C. Bigot | Steffen Dransfeld | Ana Ruescas Orient
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Evolution of Information Management at the GSFC Earth Sciences (GES) Data and Information Services Center (DISC): 2006-2007

Steven Kempler ; Christopher Lynnes ; Bruce Vollmer ; Gary Alcott ; Stephen Berrick
IEEE Transactions on Geoscience and Remote Sensing
Year: 2009 | Volume: 47, Issue: 1 | Journal Article | Publisher: IEEE
Cited by: Papers (10)

Abstract (813 Kb)

Evolution of Information Management at the GSFC Earth Sciences (GES) Data and Information Services Center (DISC): 2006-2007

Steven Kempler | Christopher Lynnes | Bruce Vollmer | Gary Alcott | Stephen Berrick
IEEE Transactions on Geoscience and Remote Sensing
Year: 2009 | Volume: 47, Issue: 1 | Journal Article | Publisher: IEEE

Investigating the spatial distribution of beech-magnolia with remotely sensed data

F. Clarke ; S. Pancholy ; O. Onokpise ; K. Milla
IEEE 1999 International Geoscience and Remote Sensing Symposium.
IGARSS'99 (Cat. No.99CH36293)
Year: 1999 | Volume: 2 | Conference Paper | Publisher: IEEE

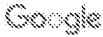
Abstract (360 Kb)

Investigating the spatial distribution of beech-magnolia with remotely sensed data

F. Clarke | S. Pancholy | O. Onokpise | K. Milla
IEEE 1999 International Geoscience and Remote Sensing Symposium.
IGARSS'99 (Cat. No.99CH36293)
Year: 1999 | Volume: 2 | Conference Paper | Publisher: IEEE

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Chimborazo - Wikipedia

<https://en.wikipedia.org/wiki/Chimborazo>

The summit of the Chimborazo is the fixed point on Earth that has the utmost distance from the center – because of the oblate spheroid shape of the planet Earth, which is "thicker" around the Equator than measured around the poles.

Country: Ecuador Topo map: IGM, CT-RIV-C1
 Elevation: 6,283.47 m (20,549.4 ft) Parent range: Andes, Cordillera Occidental

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Extreme points of Earth - Wikipedia

https://en.wikipedia.org/wiki/Extreme_points_of_Earth

This is a list of extreme points of Earth, the geographical locations that are farther north or south ... The northernmost point on Earth is the Geographic North Pole, in the Arctic Ocean. ...

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What is the highest point on Earth as measured from Earth's ...

<https://oceanservice.noaa.gov/facts/highestpoint>

The highest point above Earth's center is the peak of Ecuador's Mount Chimborazo, located just one degree south of the Equator where Earth's bulge is greatest.

elevation | National Geographic Society

<https://www.nationalgeographic.org/encyclopedia/elevation>

This photograph was taken from the top of Mount Everest, the highest point on Earth. Mount Everest, also known as Chomolungma, is 8,848 meters (29,029 feet) ...

equator | National Geographic Society

<https://www.nationalgeographic.org/encyclopedia/equator>

Sep 6, 2011 - The Equator is an imaginary line around the middle of the Earth. ... As lines of latitude increase in size, a point has to travel faster to ... another equatorial region lacking the hot, humid climate often associated with the Equator.

Plate Tectonics Information and Facts | National Geographic

<https://www.nationalgeographic.com/science/earth/the-dynamic-earth>

Dec 27, 2019 - As the mash-up continues, the mountains get higher. Mount Everest, the highest point on Earth, may be a tiny bit taller tomorrow than it is today.

Lowest Land Points Below Sea Level Map | Depression ...

<https://geology.com/below-sea-level>

... Sea Depression. Image by the United States Geological Survey. ... Most major depressions are associated with tectonic plate boundaries. They form ... it is the lowest point on Earth that is not covered by ocean, although it is covered by ice.

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J. Han (279)

Diane Crawford (263)

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Institutions

Carnegie Mellon University (8,379)

Stanford University (5,497)

University of California, Berkeley
(5,127)

Microsoft Research (5,022)

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Authors

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Peter Denning (231)

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Bibliographic Data

Application No: 15/049,595

Foreign Priority claimed: ☐ Yes ☒ No

35 USC 119 (a-d) conditions met: ☐ Yes ☒ No ☐ Met After Allowance

Verified and Acknowledged:

/TRUONG V VO/

/T.V./

Examiner's Signature

Initials

Title:

INTEGRATED CENTRALIZED PROPERTY DATABASE
SYSTEMS AND METHODS

FILING or 371(c) DATE	CLASS	GROUP ART UNIT	ATTORNEY DOCKET NO.
02/22/2016	707	2156	6339.093
RULE			

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Chris Pershing Redmond, WA, UNITED STATES
David Kinsman Woodinville, WA, UNITED STATES

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UNITED STATES

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Issue Classification 	Application/Control No. 15/049,595	Applicant(s)/Patent Under Reexamination Barrow et al.
	Examiner TRUONG V VO	Art Unit 2156

CPC			
Symbol		Type	Version
G06F	/ 16 / 29	F	2019-01-01

CPC Combination Sets				
Symbol	Type	Set	Ranking	Version
/ /				

NONE	Total Claims Allowed:					
(Assistant Examiner)	(Date)	18				
/TRUONG V VO/ Primary Examiner, Art Unit 2156 (Primary Examiner)	30 March 2020 (Date)	<table><tr><td>O.G. Print Claim(s)</td><td>O.G. Print Figure</td></tr><tr><td>1</td><td>1</td></tr></table>	O.G. Print Claim(s)	O.G. Print Figure	1	1
O.G. Print Claim(s)	O.G. Print Figure					
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Issue Classification 	Application/Control No. 15/049,595	Applicant(s)/Patent Under Reexamination Barrow et al.
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INTERNATIONAL CLASSIFICATION			
CLAIMED			
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NON-CLAIMED			
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US ORIGINAL CLASSIFICATION	
CLASS	SUBCLASS

CROSS REFERENCES(S)						
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NONE		Total Claims Allowed:	
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/TRUONG V VO/ Primary Examiner, Art Unit 2156 (Primary Examiner)	30 March 2020 (Date)	O.G. Print Claim(s) 1	O.G. Print Figure 1

Issue Classification 	Application/Control No. 15/049,595	Applicant(s)/Patent Under Reexamination Barrow et al.
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☐ Claims renumbered in the same order as presented by applicant ☐ CPA ☐ T.D. ☐ R.1.47

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/TRUONG V VO/ Primary Examiner, Art Unit 2156 (Primary Examiner)	30 March 2020 (Date)	<table><tr><td>O.G. Print Claim(s)</td><td>O.G. Print Figure</td></tr><tr><td>1</td><td>1</td></tr></table>	O.G. Print Claim(s)	O.G. Print Figure	1	1
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1	1					

<i>Index of Claims</i> 	Application/Control No. 15/049,595	Applicant(s)/Patent Under Reexamination Barrow et al.
	Examiner TRUONG V VO	Art Unit 2156

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

CLAIMS										
☐ Claims renumbered in the same order as presented by applicant						☐ CPA	☐ T.D.	☐ R.1.47		
CLAIM		DATE								
Final	Original	06/16/2018	01/30/2019	06/06/2019	03/30/2020					
1	1	✓	✓	✓	=					
2	2	✓	✓	✓	=					
3	3	✓	✓	✓	=					
4	4	✓	✓	✓	=					
5	5	✓	✓	✓	=					
	6	✓	-	-	-					
6	7	✓	✓	✓	=					
7	8	✓	✓	✓	=					
8	9	✓	✓	✓	=					
9	10	✓	✓	✓	=					
	11	✓	-	-	-					
10	12	✓	✓	✓	=					
11	13	✓	✓	✓	=					
12	14	✓	✓	✓	=					
13	15	✓	✓	✓	=					
14	16	✓	✓	✓	=					
	17	✓	-	-	-					
15	18	✓	✓	✓	=					
16	19	✓	✓	✓	=					
17	20	✓	✓	✓	=					
18	21	✓	✓	✓	=					

Doc Code: TRAN.LET

Document Description: Transmittal Letter

PTO/SB/21 (07-09)

Approved for use through 07/31/2012. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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TRANSMITTAL FORM (to be used for all correspondence after initial filing)	Application Number	15/049,595
	Filing Date	02/22/2016
	First Named Inventor	Chris Barrow
	Art Unit	2156
	Examiner Name	Truong V. Vo
Total Number of Pages in This Submission	Attorney Docket Number	6339.093

ENCLOSURES (Check all that apply)		
☐ Fee Transmittal Form ☐ Fee Attached ☐ Amendment/Reply ☐ After Final ☐ Affidavits/declaration(s) ☐ Extension of Time Request ☐ Express Abandonment Request ☐ Information Disclosure Statement ☐ Certified Copy of Priority Document(s) ☐ Reply to Missing Parts/ Incomplete Application ☐ Reply to Missing Parts under 37 CFR 1.52 or 1.53	☐ Drawing(s) ☐ Licensing-related Papers ☐ Petition ☐ Petition to Convert to a Provisional Application ☐ Power of Attorney, Revocation Change of Correspondence Address ☐ Terminal Disclaimer ☐ Request for Refund ☐ CD, Number of CD(s) _____ ☐ Landscape Table on CD	☐ After Allowance Communication to TC ☐ Appeal Communication to Board of Appeals and Interferences ☐ Appeal Communication to TC (Appeal Notice, Brief, Reply Brief) ☐ Proprietary Information ☐ Status Letter ☒ Other Enclosure(s) (please identify below): See Remarks
Remarks ELECTRONICALLY TRANSMITTED: 1. SB21 Transmittal Form (1 pg); and 2. PTOL-85 (1 pg).		

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT			
Firm Name	DUNLAP CODDING, P.C.		
Signature	/Ann M. Robl/		
Printed name	Ann M. Robl		
Date	04/22/2020	Reg. No.	71,541

CERTIFICATE OF TRANSMISSION/MAILING			
I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below:			
Signature	/Ann M. Robl/		
Typed or printed name	Ann M. Robl	Date	04/22/2020

This collection of information is required by 37 CFR 1.5. 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 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, 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.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), by mail or fax, or via EFS-Web.

By mail, send to: Mail Stop ISSUE FEE
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

By fax, send to: (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)

30589 7590 01/22/2020
DUNLAP CODDING, P.C.
PO BOX 16370
OKLAHOMA CITY, OK 73113

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

Certificate of Mailing or Transmission

I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being transmitted to the USPTO via EFS-Web or by facsimile to (571) 273-2885, on the date below.

Ann M. Robl	(Typed or printed name)
/Ann M. Robl/	(Signature)
04/22/2020	(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
15/049,595	02/22/2016	Chris Barrow	6339,093	2683

TITLE OF INVENTION: INTEGRATED CENTRALIZED PROPERTY DATABASE SYSTEMS AND METHODS

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	UNDISCOUNTED	\$1000	\$0.00	\$0.00	\$1000	04/22/2020

EXAMINER	ART UNIT	CLASS-SUBCLASS
VO, TRUONG V	2156	707-722000

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 03-09 or more recent) attached. Use of a Customer Number is required.

2. For printing on the patent front page, list

- (1) The names of up to 3 registered patent attorneys or agents OR, alternatively,
(2) The name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.

1. DUNLAP CODDING, P.C.

2. _____

3. _____

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document must have been previously recorded, or filed for recordation, as set forth in 37 CFR 3.11 and 37 CFR 3.81(a). Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE

Eagle View Technologies, Inc.

(B) RESIDENCE: (CITY and STATE OR COUNTRY)

Bellevue, WA

Please check the appropriate assignee category or categories (will not be printed on the patent): ☐ Individual ☒ Corporation or other private group entity ☐ Government

4a. Fees submitted: ☒ Issue Fee ☐ Publication Fee (if required) ☐ Advance Order - # of Copies _____

4b. Method of Payment: (Please first reapply any previously paid fee shown above)

☒ Electronic Payment via EFS-Web ☐ Enclosed check ☐ Non-electronic payment by credit card (Attach form PTO-2038)

☐ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment to Deposit Account No. _____

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 /Ann M. Robl/

Date 04/22/2020

Typed or printed name Ann M. Robl

Registration No. 71,541

Electronic Patent Application Fee Transmittal				
Application Number:		15049595		
Filing Date:		22-Feb-2016		
Title of Invention:		INTEGRATED CENTRALIZED PROPERTY DATABASE SYSTEMS AND METHODS		
First Named Inventor/Applicant Name:		Chris Barrow		
Filer:		Ann M. Robl/Lori Martin		
Attorney Docket Number:		6339.093		
Filed as Large Entity				
Filing Fees for Utility under 35 USC 111(a)				
Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
UTILITY APPL ISSUE FEE	1501	1	1000	1000

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Extension-of-Time:				
Miscellaneous:				
Total in USD (\$)				1000

Electronic Acknowledgement Receipt	
EFS ID:	39228096
Application Number:	15049595
International Application Number:	
Confirmation Number:	2683
Title of Invention:	INTEGRATED CENTRALIZED PROPERTY DATABASE SYSTEMS AND METHODS
First Named Inventor/Applicant Name:	Chris Barrow
Customer Number:	30589
Filer:	Ann M. Robl/Lori Martin
Filer Authorized By:	Ann M. Robl
Attorney Docket Number:	6339.093
Receipt Date:	22-APR-2020
Filing Date:	22-FEB-2016
Time Stamp:	10:56:32
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	CARD
Payment was successfully received in RAM	\$ 1000
RAM confirmation Number	E20204LA57092384
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	Transmittal Letter	6339093_Transmittal.pdf	152135	no	1
			a6df3ca12b369c7ad802d5922c3d6292ab398d9a		
Warnings:					
Information:					
2	Issue Fee Payment (PTO-85B)	6339093_PartB.pdf	104891	no	1
			c233e9e0fca04bd2cdbc91a04ca23befb361ca1a		
Warnings:					
Information:					
3	Fee Worksheet (SB06)	fee-info.pdf	30230	no	2
			2f71d13415b9b1e510dc5fd8499eac0fb3c3957		
Warnings:					
Information:					
Total Files Size (in bytes):			287256		
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 NO.	ISSUE DATE	PATENT NO.	ATTORNEY DOCKET NO.	CONFIRMATION NO.
15/049,595	06/02/2020	10671648	6339.093	2683

30589 7590 05/13/2020

DUNLAP CODDING, P.C.
PO BOX 16370
OKLAHOMA CITY, OK 73113

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 456 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):

Chris Barrow, Woodinville, WA;
Eagle View Technologies, Inc., Bothell, WA;
Chris Pershing, Redmond, WA;
David Kinsman, Woodinville, WA;

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IR103 (Rev. 10/09)



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CORRESPONDENCE ADDRESS CHANGE

APPLICATION #	FILING OR 371(C) DATE	REQUEST ID
15/049,595	02/22/2016	37724

The following fields have been changed to Customer Number 189081 on 08/10/2022 via Patent Center in view of the certification copied below that authorized the change.

- Correspondence Address

The address for Customer Number 189081 is:

189081 - EagleView
PO BOX 16370
OKLAHOMA CITY , OK 73113

I certify, in accordance with 37 CFR 1.4(d)(4), that I am :

An attorney or Agent of Record registered to practice before the Patent and Trademark Office who has been given power of attorney in this application

Signature	Name	Registration #
/Ann Robl/	ANN ROBL	71541



UNITED STATES
PATENT AND TRADEMARK OFFICE

P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

FEE ADDRESS CHANGE

APPLICATION #	FILING OR 371(C) DATE	REQUEST ID
15/049,595	02/22/2016	37724

The following fields have been changed to Customer Number 189081 on 08/10/2022 via Patent Center in view of the certification copied below that authorized the change.

- Maintenance Fee Address

The address for Customer Number 189081 is:

189081 - EagleView
PO BOX 16370
OKLAHOMA CITY, OK 73113

I certify, in accordance with 37 CFR 1.4(d)(4), that I am :

An attorney or Agent of Record registered to practice before the Patent and Trademark Office who has been given power of attorney in this application

Signature	Name	Registration #
/Ann Robl/	ANN ROBL	71541

POWER OF ATTORNEY TO PROSECUTE APPLICATIONS BEFORE THE USPTO

I hereby revoke all previous powers of attorney given in the application identified in the attached statement under 37 CFR 3.73(c).

I hereby appoint:

☒

Practitioners associated with Customer Number:

189081

OR

☐

Practitioner(s) named below (if more than ten patent practitioners are to be named, then a customer number must be used):

Name	Registration Number

Name	Registration Number

As attorney(s) or agent(s) to represent the undersigned before the United States Patent and Trademark Office (USPTO) in connection with any and all patent applications assigned only to the undersigned according to the USPTO assignment records or assignments documents attached to this form in accordance with 37 CFR 3.73(c).

Please change the correspondence address for the application identified in the attached statement under 37 CFR 3.73(c) to:

☒

The address associated with Customer Number:

189081

OR

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

Assignee Name and Address: Eagle View Technologies, Inc.
3700 Monte Villa Parkway, Suite 200
Bothell, WA 98021

A copy of this form, together with a statement under 37 CFR 3.73(c) (Form PTO/AIA/96 or equivalent) is required to be Filed in each application in which this form is used. The statement under 37 CFR 3.73(c) may be completed by one of The practitioners appointed in this form, and must identify the application in which this Power of Attorney is to be filed.

SIGNATURE of Assignee of Record

The individual whose signature and title is supplied below is authorized to act on behalf of the assignee

Signature	/Rebecca Unruh/	Date	August 10, 2022
Name	Rebecca Unruh	Telephone	
Title	Deputy General Counsel, IP and Transactions, Eagle View Technologies, Inc.		

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.

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TRANSMITTAL FORM <i>(to be used for all correspondence after initial filing)</i>	Application Number	15/049,595
	Filing Date	02/22/2016
	First Named Inventor	Chris Barrow
	Art Unit	2156
	Examiner Name	Truong V. Vo
Total Number of Pages in This Submission	Attorney Docket Number	6339.093

ENCLOSURES (Check all that apply)		
☐ Fee Transmittal Form ☐ Fee Attached	☐ Drawing(s) ☐ Licensing-related Papers	☐ After Allowance Communication to TC
☐ Amendment/Reply ☐ After Final ☐ Affidavits/declaration(s)	☐ Petition ☐ Petition to Convert to a Provisional Application ☒ Power of Attorney, Revocation Change of Correspondence Address	☐ Appeal Communication to Board of Appeals and Interferences ☐ Appeal Communication to TC (Appeal Notice, Brief, Reply Brief)
☐ Extension of Time Request ☐ Express Abandonment Request ☐ Information Disclosure Statement	☐ Terminal Disclaimer ☐ Request for Refund ☐ CD, Number of CD(s) _____ ☐ Landscape Table on CD	☐ Proprietary Information ☐ Status Letter ☒ Other Enclosure(s) (please identify below): See Remarks
☐ Certified Copy of Priority Document(s) ☐ Reply to Missing Parts/Incomplete Application ☐ Reply to Missing Parts under 37 CFR 1.52 or 1.53	Remarks ELECTRONICALLY TRANSMITTED: 1. SB21 Transmittal Form (1 pg); and 2. Power of Attorney (1 pg).	

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT			
Firm Name	DUNLAP CODDING, P.C.		
Signature	/Ann M. Robl/		
Printed name	Ann M. Robl		
Date	08/15/2022	Reg. No.	71,541

CERTIFICATE OF TRANSMISSION/MAILING			
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Signature	/Ann M. Robl/		
Typed or printed name	Ann M. Robl	Date	08/15/2022

This collection of information is required by 37 CFR 1.5. 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 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, 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

APPLICATION #
15/049,595

RECEIPT DATE / TIME
08/15/2022 05:13:30 PM ET

ATTORNEY DOCKET #
6339.093

Title of Invention

INTEGRATED CENTRALIZED PROPERTY DATABASE SYSTEMS AND METHODS

Application Information

APPLICATION TYPE Utility - Nonprovisional Application
under 35 USC 111(a)

PATENT # 10671648

CONFIRMATION # 2683

FILED BY Lori Martin

PATENT CENTER # 60874766

FILING DATE 02/22/2016

CUSTOMER # 189081

FIRST NAMED INVENTOR Chris Barrow

CORRESPONDENCE ADDRESS -

AUTHORIZED BY ANN ROBL

Documents

TOTAL DOCUMENTS: 2

DOCUMENT	PAGES	DESCRIPTION	SIZE (KB)
6339093_Transmittal.pdf	1	Transmittal Letter	153 KB
6339093_POA.pdf	1	Power of Attorney	88 KB

Digest

DOCUMENT	MESSAGE DIGEST(SHA-512)
6339093_Transmittal.pdf	962A80C80E127E0F94BE3478A9C9E45E04E2216D91751E3DD 15BF364342D966677BD0E0C6FDC6CEB49E003E0E67139C5E8 E224592EC8C7D851A4A0CEA1F98836

6339093_POA.pdf

A54AB5E48F00C614632C16386B0BCEDDEE37C79373B01C35B6
9747B9897CAAFD96FE544FF2ED312CC23544538CA5D1CB456
3CA4CDA4E5605969CCC4F11E8DDE48

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

New Applications Under 35 U.S.C. 111

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

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

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

New International Application Filed with the USPTO as a Receiving Office

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



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
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Address: COMMISSIONER FOR PATENTS
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Alexandria, Virginia 22313-1450
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APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
15/049,595	02/22/2016	Chris Barrow	6339.093

189081
EagleView
PO BOX 16370
OKLAHOMA CITY, OK 73113

CONFIRMATION NO. 2683
POA ACCEPTANCE LETTER



OC000000135951105

Date Mailed: 08/22/2022

NOTICE OF ACCEPTANCE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 08/15/2022.

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.

/s/torres/



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
15/049,595	02/22/2016	Chris Barrow	6339.093

189081
EagleView
PO BOX 16370
OKLAHOMA CITY, OK 73113

CONFIRMATION NO. 2683
POWER OF ATTORNEY NOTICE



OC000000135951087

Date Mailed: 08/22/2022

NOTICE REGARDING CHANGE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 08/15/2022.

- The Power of Attorney to you in this application has been revoked by the applicant. Future correspondence will be mailed to the new address of record(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.

/s/torres/