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APPLICATION NUMBER	FILING DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
14/857,854	09/18/2015	Michael D. Schulze	

113243
 Michael Schulze
 1607 Kirts Blvd.
 #103
 Troy, MI 48084



CONFIRMATION NO. 2781



OC000000092221064

Cc: REISING ETHINGTON P.C.
 P O BOX 4390
 TROY, MI 48099-4390

Date Mailed: **06/20/2017****DENIAL OF REQUEST FOR POWER OF ATTORNEY**

The request for Power of Attorney filed **06/16/2017** is acknowledged. However, the request cannot be granted at this time for the reason stated below.

- ☐ The Power of Attorney you provided did not comply with the new Power of Attorney rules that became effective on June 25, 2004. See 37 CFR 1.32.
- ☐ The revocation is not signed by the applicant, the assignee of the entire interest, or one particular principal attorney having the authority to revoke.
- ☐ The Power of Attorney is from an assignee and the Certificate required by 37 CFR 3.73(c) has not been received.
- ☐ The person signing for the assignee has omitted their empowerment to sign on behalf of the assignee.
- ☐ The inventor(s) is without authority to appoint attorneys since the assignee has intervened as provided by 37 CFR 3.71.
- ☐ The signature(s) of _____, a co-inventor in this application, has been omitted. The Power of Attorney will be entered upon receipt of confirmation signed by said co-inventor(s).
- ☐ The person(s) appointed in the Power of Attorney is not registered to practice before the U.S. Patent and Trademark Office.
- ☐ Only one Customer Number can be designated for the Power of Attorney in an application. The Customer Number that was captured is the first Customer Number provided on the Power of Attorney document.



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- ☐ A request under 37 CFR 1.48 to add an inventor was granted in this application, however, no power of attorney consistent with the power of attorney granted by the originally named inventive entity has been received. Thus, the addition of the inventor has resulted in the loss of power of attorney in the application. See 37 CFR 1.32(e).
- ☒ The power of attorney has not been accepted because the party who is giving power of attorney has not been identified. Power of attorney may only be signed by the applicant for patent (37 CFR 1.42) or the patent owner. A patent owner who was not the applicant must appoint any power of attorney in compliance with 37 CFR 3.71 and 3.73. See 37 CFR 1.32(b)(4).
- ☐ The power of attorney from the inventors has not been accepted because it is a copy from a prior national application for which benefit is claimed and the continuing application names an inventor who was not named as an inventor in the prior application.
- ☐ The power of attorney from the inventors has not been accepted because the power of attorney must be signed by the applicant for patent. See 37 CFR 1.32(b)(4).
- ☒ Any request to correct or update the name of the applicant must include an application data sheet (ADS) in compliance with 37 CFR 1.76 specifying the correct or updated name of the applicant in the applicant information section. Any request to change the applicant after an original applicant has been specified under 37 CFR 1.46(b) must include a new ADS in compliance with 37 CFR 1.76 specifying the applicant in the applicant information section and comply with 37 CFR 3.71 and 3.73. See 37 CFR 1.46(c).

Any inquiries regarding this notice should be directed to the Application Assistance Unit at 571-272-4200.

Application Assistance Unit
 571-272-4200



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APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
14/857,854	09/18/2015	Michael D. Schulze	

113243
Michael Schulze
1607 Kirts Blvd.
#103
Troy, MI 48084

CONFIRMATION NO. 2781
IMPROPER CFR REQUEST



Date Mailed: 06/20/2017

RESPONSE TO REQUEST FOR CORRECTED FILING RECEIPT

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

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

- The ADS submitted on 06/16/2017 attempts to change the applicant but cannot be entered. Any request to change the applicant once the applicant has been specified must include (1) an application data sheet specifying the new applicant in the Applicant Information section, and (2) a statement under 37 CFR 3.73(c) (USPTO Form PTO/AIA/96 or an equivalent) to show chain of title to the new applicant. The application data sheet must contain markings to show the information that is being changed, with underlining for additions and strike-through or brackets for deletions. See 37 CFR 1.76(c)(2).

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.

/ctuazon/



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APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
14/857,854	09/18/2015	Michael D. Schulze	

113243
Michael Schulze
1607 Kirts Blvd.
#103
Troy, MI 48084

CONFIRMATION NO. 2781 MISCELLANEOUS NOTICE



Date Mailed: 06/20/2017

A communication which cannot be delivered in electronic form has been mailed to the applicant.



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14/857,854	09/18/2015	Michael D. Schulze	

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- ☐ The revocation is not signed by the applicant, the assignee of the entire interest, or one particular principal attorney having the authority to revoke.
- ☐ The Power of Attorney is from an assignee and the Certificate required by 37 CFR 3.73(c) has not been received.
- ☐ The person signing for the assignee has omitted their empowerment to sign on behalf of the assignee.
- ☐ The inventor(s) is without authority to appoint attorneys since the assignee has intervened as provided by 37 CFR 3.71.
- ☐ The signature(s) of _____, a co-inventor in this application, has been omitted. The Power of Attorney will be entered upon receipt of confirmation signed by said co-inventor(s).
- ☐ The person(s) appointed in the Power of Attorney is not registered to practice before the U.S. Patent and Trademark Office.
- ☐ Only one Customer Number can be designated for the Power of Attorney in an application. The Customer Number that was captured is the first Customer Number provided on the Power of Attorney document.



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- ☐ A request under 37 CFR 1.48 to add an inventor was granted in this application, however, no power of attorney consistent with the power of attorney granted by the originally named inventive entity has been received. Thus, the addition of the inventor has resulted in the loss of power of attorney in the application. See 37 CFR 1.32(e).
- ☒ The power of attorney has not been accepted because the party who is giving power of attorney has not been identified. Power of attorney may only be signed by the applicant for patent (37 CFR 1.42) or the patent owner. A patent owner who was not the applicant must appoint any power of attorney in compliance with 37 CFR 3.71 and 3.73. See 37 CFR 1.32(b)(4).
- ☐ The power of attorney from the inventors has not been accepted because it is a copy from a prior national application for which benefit is claimed and the continuing application names an inventor who was not named as an inventor in the prior application.
- ☐ The power of attorney from the inventors has not been accepted because the power of attorney must be signed by the applicant for patent. See 37 CFR 1.32(b)(4).
- ☒ Any request to correct or update the name of the applicant must include an application data sheet (ADS) in compliance with 37 CFR 1.76 specifying the correct or updated name of the applicant in the applicant information section. Any request to change the applicant after an original applicant has been specified under 37 CFR 1.46(b) must include a new ADS in compliance with 37 CFR 1.76 specifying the applicant in the applicant information section and comply with 37 CFR 3.71 and 3.73. See 37 CFR 1.46(c).

Any inquiries regarding this notice should be directed to the Application Assistance Unit at 571-272-4200.

Application Assistance Unit
 571-272-4200

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

App. Serial No.: 14/857,854
Inventor: Schulze, Michael D.
Title: REMOTE DOCUMENT RETRIEVAL AND STORAGE
SYSTEM
Filed: September 18, 2015
Group Art Unit: 2162
Confirmation No.: 2781
Examiner: Lodhi, Andalib FT
Attorney Docket No.: 8580.3005.001

PRELIMINARY AMENDMENT

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

Dear Commissioner:

Please amend the subject application as indicated on the following pages prior to determining the claims fee and conducting the first examination on the merits.

Amendments to the claims begin on page 2.

Remarks follow the amendments.

IN THE CLAIMS:

1.-22. (Cancelled)

23. (Currently Amended) A system for selectively storing and retrieving electronic images of a plurality of financial documents, each electronic image being associated with a document parameter that includes a numerical sequence that is representative of a record date of the corresponding financial document, the system comprising:

- ~~a.~~ a first storage system including a first fixed medium, the first storage system configured to:
 - ~~i.~~ store ~~a~~ at least some of the electronic images for the plurality of financial documents wherein ~~each financial document has an electronic image in the first fixed medium when a specific the~~ document parameter ~~of a financial document is for each of the~~ at least some of the electronic images that are configured to be stored in the first storage system are greater than a predetermined parameter;
- ~~b.~~ a second storage system including a second fixed medium, the second storage system configured to:
 - ~~i.~~ store ~~a~~ at least some of the electronic images for the plurality of financial documents wherein ~~each financial document has an electronic image in the second fixed medium when the specific the~~ document parameter ~~is for each of the~~ at least some of the electronic images configured to be stored in the second storage system are less than or equal to the predetermined parameter;
- ~~c.~~ a processor which has electronic access to the first and second storage systems, wherein the processor is configured to:
 - ~~i.~~ receive a request for ~~an image of~~ one of the stored ~~financial documents~~ electronic images of the plurality of financial documents;

- ii. compare ~~a specific requested document parameter of a requested financial document~~ the numerical sequence of the document parameter associated with the requested stored electronic image to the predetermined parameter, ~~wherein the specific document parameter of the financial document is a particular numerical sequence associated with the specific document parameter, and wherein the particular numerical sequence of the financial document includes a record date of the financial document;~~
- iii. access the first storage system when the ~~specific requested document parameter~~ numerical sequence of the document parameter associated with the requested stored electronic image is greater than the predetermined parameter;
- iv. access the second storage system when the ~~specific requested document parameter~~ numerical sequence of the document parameter associated with the requested stored electronic image is less than or equal to the predetermined parameter; and
- v. automatically retrieve the requested stored electronic image ~~of the requested financial document~~ from the first storage system or the second storage system once the first storage system or the second storage system has been accessed.

24. (Previously Presented) A system as set forth in claim 23 wherein the first and second fixed mediums are different from each other.

25. (Currently Amended) A system as set forth in claim 23 wherein storing ~~a plurality of the at least some of the electronic images of the plurality of~~ financial documents in ~~a the~~ first fixed medium is further defined as storing ~~a plurality of the at least some of the electronic images of the plurality of~~ financial documents on a physical media.

26. **(Currently Amended)** A system as set forth in claim 23 wherein storing ~~a plurality of the at least some of the electronic images of the plurality of~~ financial documents in ~~a the~~ second fixed medium is further defined as electronically storing ~~the plurality of the at least some of the electronic images of the plurality of~~ financial documents in a fixed electronic medium.

27. **(Currently Amended)** A system as set forth in claim 23 wherein storing ~~the plurality of the at least some of the electronic images of the plurality of~~ financial documents in ~~a the~~ first fixed medium is further defined as electronically storing ~~the plurality of the at least some of the electronic images of the plurality of~~ financial documents in a fixed electronic medium.

28. **(Currently Amended)** A system as set forth in claim 23 wherein storing ~~the plurality of the at least some of the electronic images of the plurality of~~ financial documents in ~~a the~~ second fixed medium is further defined as storing ~~the plurality of the at least some of the electronic images of the plurality of~~ financial documents on a physical media.

29. **(Previously Presented)** A system as set forth in claim 23 wherein the first and second fixed mediums are the same.

30. **(Cancelled)**

31. **(Currently Amended)** A system as set forth in claim 23 further including reproducing the requested ~~financial document stored electronic image~~ after the ~~requested financial document stored electronic image~~ has been retrieved from the accessed storage system.

32. **(Currently Amended)** A system as set forth in claim 23 wherein accessing the first ~~and storage system or the~~ second storage ~~systems system~~ is further defined as

accessing only one of the ~~storage systems~~ first storage system or the second storage system at any one time to locate the requested ~~financial document~~ stored electronic image.

33. **(New)** A storage system as set forth in claim 23 wherein the processor which has electronic access to the first storage system and the second storage system is also inter-linked to the first storage system and the second storage system.

34. **(New)** A method of accessing an electronically-stored financial document from one of a first storage system and a second storage system with the first and second storage systems being different from each other, wherein the first and second storage systems each include a plurality of financial documents stored therein and wherein each of the financial documents has an electronic image and is associated with at least one specific document parameter, said method comprising the steps of:

storing a plurality of images of the financial documents in a first fixed medium at the first storage system when the specific document parameter of the financial document is greater than a predetermined parameter, wherein the predetermined parameter includes a numerical record date;

storing a plurality of images of the financial documents in a second fixed medium at the second storage system when the specific document parameter of the financial document is less than or equal to the predetermined parameter;

utilizing at least one processor that has access to the first and second storage systems;

receiving a request for an image of one of the stored financial documents at the processor;

comparing the specific document parameter of the requested financial document to the predetermined parameter to determine if the specific document parameter is greater than, less than, or equal to the predetermined parameter after the request has been received, wherein the specific document parameter of the financial document is a particular numerical sequence associated with

the specific document parameter, and wherein the particular numerical sequence of the financial document includes a record date of the financial document;

automatically accessing the first storage system when the specific document parameter is greater than the predetermined parameter and automatically accessing the second storage system when the specific document parameter is less than or equal to the predetermined parameter; and

automatically retrieving the image of the requested financial document from the accessed storage system as defined by the received request.

35. **(New)** A method as set forth in claim 34 wherein the first and second fixed mediums are different from each other.

36. **(New)** A method as set forth in claim 34 further including the step of reproducing the requested financial document after the requested financial document has been retrieved from the accessed storage system.

37. **(New)** A method as set forth in claim 36 wherein the step of reproducing the requested financial document after the requested financial document has been retrieved from the accessed storage system includes reproducing the requested financial document onto paper.

38. **(New)** A method as set forth in claim 36 wherein the step of reproducing the requested financial document after the requested financial document has been retrieved from the accessed storage system includes electronically reproducing the requested financial document.

39. **(New)** A method as set forth in claim 34 wherein the first and second storage systems are associated with the same entity.

40. **(New)** A method as set forth in claim 34 wherein the first and second storage systems are associated with different entities.

41. **(New)** A method as set forth in claim 34 wherein the first and second fixed mediums are the same.

42. **(New)** A method as set forth in claim 34 wherein the step of automatically accessing the first storage system when the specific document parameter is greater than the predetermined parameter and automatically accessing the second storage system when the specific document parameter is less than or equal to the predetermined parameter utilizes a processor inter-linked to the first storage system and the second storage system.

43. **(New)** A method for selectively storing and retrieving electronic images of financial documents, each electronic image being associated with a document parameter that includes a numerical sequence that is representative of a record date of the corresponding financial document, the method comprising the steps of:

storing at least some of the electronic images of financial documents at an off-site storage system, wherein the record date of the at least some of the electronic images stored at the off-site storage system is earlier than or equal to a date that is before a current date;

receiving a request from a requester for a financial document at a processor associated with the off-site storage system, wherein an origination of the request is remotely located from the off-site storage system;

electronically retrieving an electronic image of the requested financial document from the at least some of the electronic images of financial documents stored at the off-site storage system when the record date of the requested financial document is earlier than or equal to the date that is before the current date; and providing the electronic image of the requested financial document from the at least some of the electronic images of financial documents stored at the off-site storage system to the requester when the record date of the requested

financial document is earlier than or equal to the date that is before the current date.

REMARKS

This preliminary amendment is being filed for the above-identified application in compliance with 37 C.F.R. § 1.121. In view of the fact that the current status of the case is “Docketed New Case – Ready for Examination,” Applicant respectfully submits that disapproval of the enclosed amendment is not appropriate. Accordingly, Applicant requests entry of the foregoing amendment prior to calculation of the fees and prior to the first examination on the merits.

The Examiner is invited to telephone the undersigned if doing so would advance prosecution of this case.

The Commissioner is hereby authorized to charge any deficiencies except for excess claim fees required under 37 C.F.R. 1.492(d) and (e), or credit any overpayment, associated with this communication to Deposit Account No. 50-0852.

Respectfully submitted,
REISING ETHINGTON P.C.

/Shannon K. Smith/

Shannon K. Smith
Registration No. 73,822
P.O. Box 4390
Troy, Michigan 48099
(248) 689-3500

Date: June 16, 2017
RWH/SKS

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/AIA/82B identifies the application to which the Power of Attorney is directed, the Power of Attorney will not be recognized in the application.

Application Number	14/857,854
Filing Date	September 18, 2015
First Named Inventor	Michael D. Schulze
Title	Remote Document Retrieval and Storage System
Art Unit	2162
Examiner Name	Lodhi, Andalib FT
Attorney Docket Number	8580.3005.001

SIGNATURE of Applicant or Patent Practitioner

Signature	/Shannon K. Smith/	Date (Optional)	
Name	Shannon K. Smith	Registration Number	73822
Title (if Applicant is a juristic entity)	Attorney of Record		
Applicant Name (if Applicant is a juristic entity)	Mirror Imaging L.L.C.		

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 1 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.

POWER OF ATTORNEY BY APPLICANT

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

Application Number

Filing Date

(Note: The boxes above may be left blank if information is provided on form PTO/AIA/82A.)



I hereby appoint the Patent 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 identified above:

23399

OR



I hereby appoint Practitioner(s) named in the attached list (form PTO/AIA/82C) 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 patent application referenced in the attached transmittal letter (form PTO/AIA/82A) or identified above. (Note: Complete form PTO/AIA/82C.)

Please recognize or change the correspondence address for the application identified in the attached transmittal letter or the boxes above 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 (if the Applicant is a juristic entity, list the Applicant name in the box):

Mirror Imaging L.L.C.



Inventor or Joint Inventor (title not required below)



Legal Representative of a Deceased or Legally Incapacitated Inventor (title not required below)



Assignee or Person to Whom the Inventor is Under an Obligation to Assign (provide signer's title if applicant is a juristic entity)



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) (provide signer's title if applicant is a juristic entity)

SIGNATURE of Applicant for Patent

The undersigned (whose title is supplied below) is authorized to act on behalf of the applicant (e.g., where the applicant is a juristic entity).

Signature

Date (Optional)

6-6-17

Name

Michael D. Schulze

Title

President, Mirror Imaging L.L.C.

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. If more than one applicant, use multiple forms.



Total of

1

forms are submitted.

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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	8580.3005.001
		Application Number	<u>14/857,854</u>
Title of Invention	REMOTE DOCUMENT RETRIEVAL AND STORAGE SYSTEM		
<p>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.</p> <p>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.</p>			

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	
	Michael	D.		Schulze			
Residence Information (Select One) <input checked="" type="radio"/> US Residency <input type="radio"/> Non US Residency <input type="radio"/> Active US Military Service							
City	Troy	State/Province	MI	Country of Residence	US		
Mailing Address of Inventor:							
Address 1		1607 Kirts					
Address 2		Apartment 103					
City	Troy			State/Province	MI		
Postal Code	48084		Country	US			
Inventor 2						Remove	
Legal Name							
Prefix	Given Name	Middle Name		Family Name		Suffix	
	Richard	J.		Gagnon			
Residence Information (Select One) <input checked="" type="radio"/> US Residency <input type="radio"/> Non US Residency <input type="radio"/> Active US Military Service							
City	Grosse Pointe Farms	State/Province	MI	Country of Residence	US		
Mailing Address of Inventor:							
Address 1		69 Touraine Road					
Address 2							
City	Grosse Pointe Farms			State/Province	MI		
Postal Code	48236		Country	US			
All Inventors Must Be Listed - Additional Inventor Information blocks may be generated within this form by selecting the Add button.						Add	

Correspondence Information:

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

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	8580.3005.001
		Application Number	<u>14/857,854</u>
Title of Invention	REMOTE DOCUMENT RETRIEVAL AND STORAGE SYSTEM		

☐ An Address is being provided for the correspondence information of this application.

Customer Number	<u>23399</u>		
Email Address		<input type="button" value="Add Email"/>	<input type="button" value="Remove Email"/>

Application Information:

Title of the Invention	REMOTE DOCUMENT RETRIEVAL AND STORAGE SYSTEM		
Attorney Docket Number	8580.3005.001	Small Entity Status Claimed	<input type="checkbox"/>
Application Type	Nonprovisional		
Subject Matter	Utility		
Total Number of Drawing Sheets (if any)	4	Suggested Figure for Publication (if any)	

Filing By Reference:

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

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

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

Publication Information:

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

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

Representative Information:

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

Please Select One:	<input checked="" type="radio"/> Customer Number	<input type="radio"/> US Patent Practitioner	<input type="radio"/> Limited Recognition (37 CFR 11.9)
Customer Number	000113243 <u>23399</u>		

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	8580.3005.001
		Application Number	<u>14/857,854</u>
Title of Invention	REMOTE DOCUMENT RETRIEVAL AND STORAGE SYSTEM		

Domestic Benefit/National Stage Information:

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

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

Prior Application Status	Pending	Remove			
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)		
13840892	Continuation of	13272936	2013-03-15		
Prior Application Status	Abandoned	Remove			
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)		
3272936 <u>13272936</u>	Continuation of	12902973	2010-10-12		
Prior Application Status	Patented	Remove			
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)	Patent Number	Issue Date (YYYY-MM-DD)
12902973	Continuation of	12489087	2009-06-22	7836067	2010-11-16
Prior Application Status	Patented	Remove			
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)	Patent Number	Issue Date (YYYY-MM-DD)
12489087	Continuation of	11202790	2005-08-12	7552118	2009-06-23
Prior Application Status	Patented	Remove			
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)	Patent Number	Issue Date (YYYY-MM-DD)
11202790	Continuation of	10104541	2002-03-22	6963866	2005-11-08
Prior Application Status	Patented	Remove			
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)	Patent Number	Issue Date (YYYY-MM-DD)
10104541	Continuation of	09548490	2000-04-13	6446072	2002-09-03
Prior Application Status	Expired	Remove			
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)		
09548490	Claims benefit of provisional	60129021	1999-04-13		

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

Foreign Priority Information:

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	8580.3005.001
		Application Number	<u>14/857,854</u>
Title of Invention	REMOTE DOCUMENT RETRIEVAL AND STORAGE SYSTEM		

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)	<div>Remove</div> Access Code ⁱ (if applicable)

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

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

<p>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.</p> <p><input type="checkbox"/> 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.</p>
--

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	8580.3005.001
	Application Number	<u>14/857,854</u>
Title of Invention	REMOTE DOCUMENT RETRIEVAL AND STORAGE SYSTEM	

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	8580.3005.001
		Application Number	<u>14/857,854</u>
Title of Invention	REMOTE DOCUMENT RETRIEVAL AND STORAGE SYSTEM		

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			
<p>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.</p>			
<input type="button" value="Clear"/>			
<input checked="" type="radio"/> Assignee		<input type="radio"/> Legal Representative under 35 U.S.C. 117	
<input type="radio"/> Person to whom the inventor is obligated to assign.		<input type="radio"/> Joint Inventor	
<input type="radio"/> 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: <input type="text"/>			
If the Applicant is an Organization check here. <input checked="" type="checkbox"/>			
Organization Name	<u>Mirror Imaging L.L.C.</u>		
Mailing Address Information For Applicant:			
Address 1	<u>27500 Donald Court</u>		
Address 2			
City	<u>Warren</u>	State/Province	<u>MI</u>
Country	<u>US</u>	Postal Code	<u>48092</u>
Phone Number		Fax Number	
Email Address			
Additional Applicant Data may be generated within this form by selecting the Add button.			

Assignee Information including Non-Applicant Assignee Information:

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

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	8580.3005.001
		Application Number	<u>14/857,854</u>
Title of Invention	REMOTE DOCUMENT RETRIEVAL AND STORAGE SYSTEM		

Assignee 1

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

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

Organization Name

Mirror Imaging L.L.C.

Mailing Address Information For Assignee including Non-Applicant Assignee:

Address 1		27500 Donald Court	
Address 2			
City	Warren	State/Province	MI
Country ⁱ	US	Postal Code	48092
Phone Number		Fax Number	
Email Address			

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

Signature:

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

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

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

Signature	/Shannon K. Smith/		Date (YYYY-MM-DD)	2016-06-16
First Name	Shannon K.	Last Name	Smith	Registration Number
73822				

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

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	8580.3005.001
		Application Number	<u>14/857,854</u>
Title of Invention	REMOTE DOCUMENT RETRIEVAL AND STORAGE SYSTEM		

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.**

Privacy Act Statement

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

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

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

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number		14857854
	Filing Date		2015-09-18
	First Named Inventor	Michael D. Schulze	
	Art Unit	2162	
	Examiner Name	Andalib Ft Lodhi	
	Attorney Docket Number	8580.3005.001	

U.S.PATENTS						Remove
Examiner Initial*	Cite No	Patent Number	Kind Code ¹	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	5384835		1995-01-24	Wheeler, et. al	
	2	5373550		1994-12-13	Campbell, et. al	
	3	5602933		1997-02-11	Blackwell, et. al	
	4	5305196		1994-04-19	Deaton, et.al	
	5	5910988		1999-06-08	Ballard	
	6	5926288		1999-07-20	Dellert, et al	
	7	5742792		1998-04-21	Yanai, et. al	
	8	5109439		1992-04-28	Froessl	

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First Named Inventor	Michael D. Schulze	
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Examiner Name	Andalib Ft Lodhi	
Attorney Docket Number		8580.3005.001

9	5097517		1992-03-17	Holt	
10	5787403		1998-07-28	Randle	
11	5784610		1998-07-21	Copeland, III et al	
12	5783808		1998-07-21	Josephson	
13	5940844		1999-08-17	Cahill et al	
14	5325511		1994-06-28	Collins et al.	
15	5339311		1994-08-16	Turner	
16	5361255		1994-11-01	Diaz et al	
17	5592432		1997-01-07	Vishlitzky, et al	
18	5602936		1997-02-01	Green et al.	
19	5649196		1997-07-15	Woodhill et al.	

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20	5706457		1998-01-06	Dwyer et al.	
21	5751993		1998-05-12	Ofek et al.	
22	5806078		1998-09-08	Hug et al.	
23	5819300		1998-10-06	Kohno et al.	
24	5825506		1998-10-20	Bednar et al.	
25	5825943		1998-10-20	DeVio et al.	
26	5860066		1999-01-12	Rouse	
27	5870725		1999-02-09	Bellinger et al.	
28	5895455		1999-04-20	Bellinger et al.	
29	5897643		1999-04-27	Matsumoto	
30	5926623		1999-07-20	Tsukakoshi et al.	

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31	5949492		1999-09-07	Mankovitz	
32	5953729		1999-09-14	Cabrera et al.	
33	5187750		1993-02-16	Behera	
34	4888812		1989-12-19	Dinan et al.	
35	4899299		1990-02-06	MacPhail	
36	4941125		1990-06-10	Boyne	
37	5170466		1992-12-08	Rogan et al.	
38	5287497		1994-02-15	Behera	
39	5301350		1994-04-05	Rogan et al.	
40	5321816		1994-06-14	Rogan et al.	
41	6029175		2000-02-22	Chow et al.	

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42	6061686		2000-05-09	Gauvin et al.	
43	6065026		2000-05-16	Cornelia et al.	
44	6157931		2000-12-05	Cane et al.	
45	6097834		2000-08-01	Krouse et al.	
46	6115509		2000-09-05	Yeskel	
47	6124878		2000-09-26	Adams et al.	
48	6181837		2001-01-30	Cahill et al.	
49	6212303		2001-04-03	Doran et al.	
50	6246778		2001-06-12	Moore	
51	6269380		2001-07-31	Terry et al.	
52	6269382		2001-07-31	Cabrera et al.	

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Examiner Name	Andalib Ft Lodhi	
Attorney Docket Number		8580.3005.001

53	6308179		2001-10-23	Petersen et al.	
54	6321258		2001-11-20	Stollfus et al.	
55	6446072		2002-09-03	Schulze et al.	
56	63872448		1975-03-18	Mitchell, Jr.	
57	64817050		1989-03-28	Komatsu et al.	
58	65029016		1991-07-02	Hiyama et al.	
59	65058185		1991-10-15	Morris et al.	
60	65153936		1992-10-16	Morris et al.	
61	65218685		1993-06-08	Jones	
62	65247660		1993-09-21	Ashcraft et al.	
63	65506986		1996-04-09	Healy	

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64	5530899		1996-06-25	MacDonald	
65	5548770		1996-06-20	Bridges	
66	5550976		1996-08-27	Henderson et al.	
67	5572726		1996-11-05	Hasuo	
68	5584008		1996-12-10	Shimada et al.	
69	5678042		1997-10-14	Pisello et al.	
70	5678046		1997-10-14	Cahill et al.	
71	5727164		1998-03-10	Keye et al.	
72	5732214		1998-03-24	Subrahmanyam	
73	5742807		1998-04-21	Masinter	
74	5813009		1998-09-02	Johnson et al.	

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Attorney Docket Number		8580.3005.001

75	5901228		1999-05-04	Crawford	
76	5917958		1999-06-29	Nunally et al.	
77	5924074		1999-07-13	Evans	
78	60233710		2000-02-08	Steiner et al.	
79	6081251		2000-06-27	Sakai et al.	
80	6157930		2000-12-15	Ballard et al.	
81	6236767		2001-05-22	Altman	
82	6349330		2002-02-19	Bernadett et al.	
83	6360306		2002-03-19	Bergsten	
84	6366930		2002-04-02	Parker et al.	
85	6557039		2003-04-29	Leong et al.	

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86	6574629		2003-06-03	Cooke, Jr. et al.
87	6584466		2003-06-24	Serbinis et al.
88	6886047		2005-04-26	Leong et al.
89	6820094		2004-11-16	Ferguson et al.
90	7836067	B2	2010-11-16	Schulze et al.
91	9141612		2015-03-15	Schulze et al.

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Art Unit	2162
Examiner Name	Andalib Ft Lodhi
Attorney Docket Number	8580.3005.001

1							
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NON-PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T ⁵
1			

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EXAMINER SIGNATURE

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

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

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Application Number	14857854
Filing Date	2015-09-18
First Named Inventor	Michael D. Schulze
Art Unit	2162
Examiner Name	Andalib Ft Lodhi
Attorney Docket Number	8580.3005.001

CERTIFICATION STATEMENT

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

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

OR

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

See attached certification statement.

The fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

☒ A certification statement is not submitted herewith.

SIGNATURE

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

Signature	/Shannon K. Smith/	Date (YYYY-MM-DD)	2017-06-16
Name/Print	Shannon K. Smith	Registration Number	73822

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

Privacy Act Statement

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

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

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

Electronic Acknowledgement Receipt

EFS ID:	29521542
Application Number:	14857854
International Application Number:	
Confirmation Number:	2781
Title of Invention:	REMOTE DOCUMENT RETRIEVAL AND STORAGE SYSTEM
First Named Inventor/Applicant Name:	Michael D. Schulze
Customer Number:	113243
Filer:	Shannon Smith
Filer Authorized By:	
Attorney Docket Number:	
Receipt Date:	16-JUN-2017
Filing Date:	18-SEP-2015
Time Stamp:	13:27:38
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no
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File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1		PreliminaryAmendment.pdf	106689	yes	9
			9fd0f47bbfe9bdd8fa2b562b427fe2bb67ef2100		

	Multipart Description/PDF files in .zip description				
	Document Description		Start	End	
	Preliminary Amendment		1	1	
	Claims		2	8	
	Applicant Arguments/Remarks Made in an Amendment		9	9	
Warnings:					
Information:					
2	Power of Attorney	POA-Signed.pdf	211855	no	2
			ed8d0422821d74cb33832ead40a262b13250d092		
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:					
3	Application Data Sheet	ADS-revised.pdf	197043	no	9
			5534a7ae65af24496056f72472a8b9b7deac0ba8		
Warnings:					
Information:					
This is not an USPTO supplied ADS fillable form					
4	Information Disclosure Statement (IDS) Form (SB08)	IDS.pdf	614307	no	12
			018764068343c8f62191c86602d903ad1f13d681		
Warnings:					
Information:					
Total Files Size (in bytes):			1129894		

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

New Applications Under 35 U.S.C. 111

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

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

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

New International Application Filed with the USPTO as a Receiving Office

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

**PETITION TO MAKE SPECIAL BASED ON AGE FOR ADVANCEMENT OF EXAMINATION
UNDER 37 CFR 1.102(c)(1)**

Application Information

Application Number	14857854	Confirmation Number	1132	Filing Date	18-Sep-2015
Attorney Docket Number (optional)		Art Unit	2162	Examiner	ANDALIB LODHI
First Named Inventor	Michael D. Schulze				
Title of Invention	REMOTE DOCUMENT RETRIEVAL AND STORAGE SYSTEM				

Attention: Office of Petitions

An application may be made special for advancement of examination upon filing of a petition showing that the applicant is 65 years of age, or more. No fee is required with such a petition. See 37 CFR 1.102(c)(1) and MPEP 708.02 (II).

APPLICANT HEREBY PETITIONS TO MAKE SPECIAL FOR ADVANCEMENT OF EXAMINATION IN THIS APPLICATION UNDER 37 CFR 1.102(c)(1) and MPEP 708.02 (II) ON THE BASIS OF THE APPLICANT'S AGE.

A grantable petition requires one of the following items:

- (1) Statement by one named inventor in the application that he/she is 65 years of age, or more; or
- (2) Certification by a registered attorney/agent having evidence such as a birth certificate, passport, driver's license, etc. showing one named inventor in the application is 65 years of age, or more.

Name of Inventor who is 65 years of age, or older

Given Name	Middle Name	Family Name	Suffix
Richard	J	Gagnon	

A signature of the applicant or representative is required in accordance with 37 CFR 1.33 and 10.18.
Please see 37 CFR 1.4(d) for the format of the signature.

Select (1) or (2) :

- ☐ (1) I am an inventor in this application and I am 65 years of age, or more.
- ☒ (2) I am an attorney or agent registered to practice before the Patent and Trademark Office, and I certify that I am in possession of evidence, and will retain such in the application file record, showing that the inventor listed above is 65 years of age, or more.

Signature	/Shannon Smith/		
Name	Shannon Smith	Registration Number	73822

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.

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1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether the Freedom of Information Act requires disclosure of these records.
2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
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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.
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UNITED STATES PATENT AND TRADEMARK OFFICE

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

In re Application of
Michael D. Schulze

Application No. 14857854

Filed: September 18, 2015

Attorney Docket No.

:

:

:DECISION ON PETITION TO MAKE SPECIAL
:UNDER 37 CFR 1.102(c)(1)

:

This is a decision on the electronic petition under 37 CFR 1.102 (c)(1), filed 16-JUN-2017 to make the above-identified application special based on applicant's age as set forth in MPEP § 708.02, Section II.

The petition is **GRANTED**.

A grantable petition to make an application special under 37 CFR 1.102(c)(1), MPEP § 708.02, Section II : Applicant's Age must include a statement by applicant or a registered practitioner having evidence that applicant is at least 65 years of age. No fee is required.

Accordingly, the above-identified application has been accorded "special" status and will be taken up for action by the examiner upon the completion of all pre-examination processing.

Telephone inquiries concerning this electronic decision should be directed to the Electronic Business Center at 866-217-9197.

All other inquiries concerning either the examination or status of the application should be directed to the Technology Center.

Electronic Acknowledgement Receipt

EFS ID:	29523927
Application Number:	14857854
International Application Number:	
Confirmation Number:	2781
Title of Invention:	REMOTE DOCUMENT RETRIEVAL AND STORAGE SYSTEM
First Named Inventor/Applicant Name:	Michael D. Schulze
Customer Number:	113243
Filer:	Shannon Smith
Filer Authorized By:	
Attorney Docket Number:	
Receipt Date:	16-JUN-2017
Filing Date:	18-SEP-2015
Time Stamp:	15:04:40
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no
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File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Petition automatically granted by EFS	petition-request.pdf	38101	no	2
			ace6f8d8a3770bfacd962b6af4553813ec831c32		

Warnings:

Information:	
Total Files Size (in bytes):	38101
<p>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.</p> <p><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.</p> <p><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.</p> <p><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.</p>	

PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875					Application or Docket Number 14/857,854		Filing Date 09/18/2015		<input type="checkbox"/> To be Mailed				
ENTITY: <input checked="" type="checkbox"/> LARGE <input type="checkbox"/> SMALL <input type="checkbox"/> MICRO													
APPLICATION AS FILED – PART I													
(Column 1)			(Column 2)										
FOR		NUMBER FILED		NUMBER EXTRA		RATE (\$)		FEE (\$)					
<input checked="" type="checkbox"/> BASIC FEE (37 CFR 1.16(a), (b), or (c))		N/A		N/A		N/A		280					
<input checked="" type="checkbox"/> SEARCH FEE (37 CFR 1.16(k), (i), or (m))		N/A		N/A		N/A		600					
<input checked="" type="checkbox"/> EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))		N/A		N/A		N/A		720					
TOTAL CLAIMS (37 CFR 1.16(i))		10 minus 20 =		* 0		x \$80 =		0					
INDEPENDENT CLAIMS (37 CFR 1.16(h))		1 minus 3 =		* 0		x \$420 =		0					
<input type="checkbox"/> 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).											
<input type="checkbox"/> 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		1600					
APPLICATION AS AMENDED – PART II													
(Column 1)			(Column 2)			(Column 3)							
AMENDMENT	09/18/2015		CLAIMS REMAINING AFTER AMENDMENT			HIGHEST NUMBER PREVIOUSLY PAID FOR		PRESENT EXTRA		RATE (\$)		ADDITIONAL FEE (\$)	
	Total (37 CFR 1.16(i))		* 10		Minus	** 20		= 0		x \$80 =		0	
	Independent (37 CFR 1.16(h))		* 1		Minus	*** 3		= 0		x \$420 =		0	
	<input type="checkbox"/> Application Size Fee (37 CFR 1.16(s))												
	<input type="checkbox"/> FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))												
										TOTAL ADD'L FEE		0	
(Column 1)			(Column 2)			(Column 3)							
AMENDMENT	06/16/2017		CLAIMS REMAINING AFTER AMENDMENT			HIGHEST NUMBER PREVIOUSLY PAID FOR		PRESENT EXTRA		RATE (\$)		ADDITIONAL FEE (\$)	
	Total (37 CFR 1.16(i))		* 20		Minus	** 20		= 0		x \$80 =		0	
	Independent (37 CFR 1.16(h))		* 3		Minus	*** 3		= 0		x \$420 =		0	
	<input type="checkbox"/> Application Size Fee (37 CFR 1.16(s))												
	<input type="checkbox"/> FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))												
										TOTAL ADD'L FEE		0	
<p>* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.</p> <p>** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".</p> <p>*** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3".</p> <p>The "Highest Number Previously Paid For" (Total or Independent) is the highest number found in the appropriate box in column 1.</p>													

LIE
AJAY R. DAVID

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

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



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

APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
14/857,854	09/18/2015	Michael D. Schulze	

CONFIRMATION NO. 2781

PUBLICATION NOTICE



OC000000080161431

113243
Michael Schulze
1607 Kirts Blvd.
#103
Troy, MI 48084

Title:REMOTE DOCUMENT RETRIEVAL AND STORAGE SYSTEM

Publication No.US-2016-0026685-A1

Publication Date:01/28/2016

NOTICE OF PUBLICATION OF APPLICATION

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

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

The publication process established by the Office does not provide for mailing a copy of the publication to applicant. A copy of the publication may be obtained from the Office upon payment of the appropriate fee set forth in 37 CFR 1.19(a)(1). Orders for copies of patent application publications are handled by the USPTO's Office of Public Records. The Office of Public Records can be reached by telephone at (703) 308-9726 or (800) 972-6382, by facsimile at (703) 305-8759, by mail addressed to the United States Patent and Trademark Office, Office of Public Records, Alexandria, VA 22313-1450 or via the Internet.

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

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

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



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UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
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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
14/857,854	09/18/2015	2162	1600		10	1

113243
Michael Schulze
1607 Kirts Blvd.
#103
Troy, MI 48084

CONFIRMATION NO. 2781
REPLACEMENT FILING RECEIPT



Date Mailed: 10/28/2015

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

Inventor(s)

Michael D. Schulze, Troy, MI;
Richard J. Gagnon, Grosse Pointe Park, MI;

Applicant(s)

Michael D. Schulze, Troy, MI;
Richard J. Gagnon, Grosse Pointe Park, MI;

Assignment For Published Patent Application

Mirror Imaging L.L.C., Warren, MI

Power of Attorney: None

Domestic Priority data as claimed by applicant

This application is a CON of 13/840,892 03/15/2013 PAT 9141612
which is a CON of 13/272,936 10/13/2011 ABN
which is a CON of 12/902,973 10/12/2010 ABN
which is a CON of 12/489,087 06/22/2009 PAT 7836067
which is a CON of 11/202,790 08/12/2005 PAT 7552118
which is a CON of 10/104,541 03/22/2002 PAT 6963866
which is a CON of 09/548,490 04/13/2000 PAT 6446072
which claims benefit of 60/129,021 04/13/1999

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

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

If Required, Foreign Filing License Granted: 09/30/2015

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 14/857,854**

Projected Publication Date: 01/28/2016

Non-Publication Request: No

Early Publication Request: No

Title

REMOTE DOCUMENT RETRIEVAL AND STORAGE SYSTEM

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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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 37, Code of Federal Regulations, 5.11 & 5.15

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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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APPLICATION NUMBER	FILING DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
14/857,854	09/18/2015	Michael D. Schulze	

Michael Schulze
Apt. #103
1607 Kirts Blvd
Troy, MI 48084

CONFIRMATION NO. 2781



OC000000077776374

Date Mailed: 10/01/2015

RESPONSE TO REQUEST FOR CORRECTED FILING RECEIPT

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- ☐ The change of correspondence address submitted on _____ has not been entered because it does not sufficiently identify the application to which it is directed.
- ☐ The change of correspondence address submitted on _____ has not been entered because it fails to provide a valid Customer Number or a complete mailing address.
- ☐ The Request for Customer Number Data Change cannot be processed as submitted. Customer Number data may either be changed electronically in Private PAIR or by submitting to the Electronic Business Center (EBC) the Customer Number Data Change form, Form PTO/SB/124A, located at <http://www.uspto.gov/web/forms/sb0124-fill.pdf>. You may mail the form to the address listed on the form or fax it to 571-273-0177. To use Private PAIR you must be a registered user.

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B. Nguyen

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

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**CHANGE OF
CORRESPONDENCE ADDRESS**
*Application*Address to:
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Application Number	14/857,854
Filing Date	09-18-2015
First Named Inventor	Schulze
Art Unit	2162
Examiner Name	
Attorney Docket Number	

Please change the Correspondence Address for the above-identified patent application to:

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Applicant



Attorney or agent of record. Registration Number _____



Registered practitioner named in the application transmittal papers who acts in a representative capacity under 37 CFR 1.34. See 37 CFR 1.33(a)(1). Registration Number _____

Signature

Typed or Printed
Name

Michael Schulze

Date 10-22-2015

Telephone 586-850-8143

NOTE: This form must be signed in accordance with 37 CFR 1.33. See 37 CFR 1.4(d) for signature requirements and certifications.
Submit multiple forms if more than one signature is required, see below*.

*Total of 2 forms are submitted.

This collection of information is required by 37 CFR 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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Commissioner for Patents
P.O. Box 1450
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Application Number	14/857,854
Filing Date	09-18-2015
First Named Inventor	Schulze
Art Unit	2162
Examiner Name	
Attorney Docket Number	

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Applicant



Attorney or agent of record. Registration Number _____



Registered practitioner named in the application transmittal papers who acts in a representative capacity under 37 CFR 1.34. See 37 CFR 1.33(a)(1). Registration Number _____

Signature

Typed or Printed
Name

Richard Gagnon

Date 10-22-2015

Telephone

248-977-8671

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

Electronic Acknowledgement Receipt

EFS ID:	23869280
Application Number:	14857854
International Application Number:	
Confirmation Number:	2781
Title of Invention:	REMOTE DOCUMENT RETRIEVAL AND STORAGE SYSTEM
First Named Inventor/Applicant Name:	Michael D. Schulze
Correspondence Address:	Michael Schulze - Apt. #103 1607 Kirts Blvd Troy MI 48084 US 5868508143 michaelschulze@hotmail.com
Filer:	Michael Schulze
Filer Authorized By:	
Attorney Docket Number:	
Receipt Date:	22-OCT-2015
Filing Date:	18-SEP-2015
Time Stamp:	20:32:16
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no
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File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Request for Corrected Filing Receipt	newcustomernumberchangeform.pdf	3019851 c81ccdbaa804406145d444823fa5d9bf09d5892a	no	4

Warnings:

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New Applications Under 35 U.S.C. 111

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

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

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New International Application Filed with the USPTO as a Receiving Office

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PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875						Application or Docket Number 14/857,854				
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(j))	10 minus 20 =	*			OR	x 80 =	0.00			
INDEPENDENT CLAIMS (37 CFR 1.16(h))	1 minus 3 =	*				x 420 =	0.00			
APPLICATION SIZE FEE (37 CFR 1.16(s))	If the specification and drawings exceed 100 sheets of paper, the application size fee due is \$310 (\$155 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).						0.00			
MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))							0.00			
			TOTAL			TOTAL	1600			
* If the difference in column 1 is less than zero, enter "0" in column 2.										
APPLICATION AS AMENDED - PART II										
(Column 1)		(Column 2)		(Column 3)		SMALL ENTITY		OR OTHER THAN SMALL ENTITY		
AMENDMENT A		CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE(\$)	ADDITIONAL FEE(\$)		RATE(\$)	ADDITIONAL FEE(\$)
	Total (37 CFR 1.16(i))	*	Minus	**	=	x =		OR	x =	
	Independent (37 CFR 1.16(h))	*	Minus	***	=	x =		OR	x =	
	Application Size Fee (37 CFR 1.16(s))							OR		
	FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							OR		
						TOTAL ADD'L FEE		OR	TOTAL ADD'L FEE	
(Column 1)		(Column 2)		(Column 3)		SMALL ENTITY		OR OTHER THAN SMALL ENTITY		
AMENDMENT B		CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE(\$)	ADDITIONAL FEE(\$)		RATE(\$)	ADDITIONAL FEE(\$)
	Total (37 CFR 1.16(i))	*	Minus	**	=	x =		OR	x =	
	Independent (37 CFR 1.16(h))	*	Minus	***	=	x =		OR	x =	
	Application Size Fee (37 CFR 1.16(s))							OR		
	FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							OR		
						TOTAL ADD'L FEE		OR	TOTAL ADD'L FEE	
* If the entry in column 1 is less than the entry in column 2, write "0" in column 3. ** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20". *** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3". The "Highest Number Previously Paid For" (Total or Independent) is the highest found in the appropriate box in column 1.										



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APPLICATION NUMBER	FILING or 371(c) DATE	GRP ART UNIT	FIL FEE REC'D	ATTY. DOCKET NO.	TOT CLAIMS	IND CLAIMS
14/857,854	09/18/2015	3693	1600		10	1

Michael Schulze
Apt. #103
1607 Kirts Blvd
Troy, MI 48084

CONFIRMATION NO. 2781
UPDATED FILING RECEIPT



Date Mailed: 10/20/2015

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

Inventor(s)

Michael D. Schulze, Troy, MI;
Richard J. Gagnon, Grosse Pointe Park, MI;

Applicant(s)

Michael D. Schulze, Troy, MI;
Richard J. Gagnon, Grosse Pointe Park, MI;

Assignment For Published Patent Application

Mirror Imaging L.L.C., Warren, MI

Power of Attorney: None

Domestic Priority data as claimed by applicant

This application is a CON of 13/840,892 03/15/2013 PAT 9141612
which is a CON of 13/272,936 10/13/2011 ABN
which is a CON of 12/902,973 10/12/2010 ABN
which is a CON of 12/489,087 06/22/2009 PAT 7836067
which is a CON of 11/202,790 08/12/2005 PAT 7552118
which is a CON of 10/104,541 03/22/2002 PAT 6963866
which is a CON of 09/548,490 04/13/2000 PAT 6446072
which claims benefit of 60/129,021 04/13/1999

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

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

If Required, Foreign Filing License Granted: 09/30/2015

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 14/857,854**

Projected Publication Date: 01/28/2016

Non-Publication Request: No

Early Publication Request: No

Title

REMOTE DOCUMENT RETRIEVAL AND STORAGE SYSTEM

Preliminary Class

705

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

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For information on preventing theft of your intellectual property (patents, trademarks and copyrights), you may wish to consult the U.S. Government website, <http://www.stopfakes.gov>. Part of a Department of Commerce initiative, this website includes self-help "toolkits" giving innovators guidance on how to protect intellectual property in specific countries such as China, Korea and Mexico. For questions regarding patent enforcement issues, applicants may call the U.S. Government hotline at 1-866-999-HALT (1-866-999-4258).

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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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APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
14/857,854	09/18/2015	Michael D. Schulze	

CONFIRMATION NO. 2781

FORMALITIES LETTER



OC00000007776429

Date Mailed: 10/01/2015

Michael Schulze
Apt. #103
1607 Kirts Blvd
Troy, MI 48064

NOTICE TO FILE MISSING PARTS OF NONPROVISIONAL APPLICATION

FILED UNDER 37 CFR 1.53(b)

Filing Date Granted

Items Required To Avoid Abandonment:

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

- A mailing address for each inventor has not been submitted. A new application data sheet (ADS) in compliance with 37 CFR 1.76 or inventor's oath or declaration in compliance with 37 CFR 1.63 identifying the mailing address and residence (if the inventor lives at a location which is different from where the inventor customarily receives mail) is required.

Michael D. Schulze
Richard J. Gagnon

Items Required To Avoid Processing Delays:

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

- The ADS received on 09/18/2015 was not properly signed. Therefore, the Office will treat it only as a transmittal letter. See 37 CFR 1.76(e). Inventorship has not been set by this document and any foreign priority or domestic benefit claims contained therein are ineffective. See 37 CFR 1.55 or 37 CFR 1.78.

09/18/15

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

Replies should be mailed to:

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

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

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

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

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.

/cnguyen/

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	
		Application Number	
Title of Invention	REMOTE DOCUMENT RETRIEVAL AND STORAGE SYSTEM		
<p>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.</p> <p>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.</p>			

Secrecy Order 37 CFR 5.2

<input type="checkbox"/>	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		
	Michael	D.	Schulze			
Residence Information (Select One) <input checked="" type="radio"/> US Residency <input type="radio"/> Non US Residency <input type="radio"/> Active US Military Service						
City	Troy	State/Province	MI	Country of Residence	US	
Mailing Address of Inventor:						
Address 1		1607 Kirts Blvd				
Address 2		Apartment 103				
City	Troy	State/Province	MI			
Postal Code	48084	Country	US			
Inventor 2					Remove	
Legal Name						
Prefix	Given Name	Middle Name	Family Name	Suffix		
	Richard	J.	Gagnon			
Residence Information (Select One) <input checked="" type="radio"/> US Residency <input type="radio"/> Non US Residency <input type="radio"/> Active US Military Service						
City	Grosse Pointe Park	State/Province	MI	Country of Residence	US	
Mailing Address of Inventor:						
Address 1		1232 Whittier Road				
Address 2						
City	Grosse Pointe Park	State/Province	MI			
Postal Code	48230	Country	US			
All Inventors Must Be Listed - Additional Inventor Information blocks may be generated within this form by selecting the Add button.						
Add						

Correspondence Information:

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

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	
		Application Number	
Title of Invention	REMOTE DOCUMENT RETRIEVAL AND STORAGE SYSTEM		

☐ An Address is being provided for the correspondence information of this application.

Customer Number	000113243		
Email Address	michaelschulze@hotmail.com	Add Email	Remove Email

Application Information:

Title of the Invention	REMOTE DOCUMENT RETRIEVAL AND STORAGE SYSTEM		
Attorney Docket Number		Small Entity Status Claimed	<input type="checkbox"/>
Application Type	Nonprovisional		
Subject Matter	Utility		
Total Number of Drawing Sheets (if any)	4	Suggested Figure for Publication (if any)	

Filing By Reference :

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

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

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

Publication Information:

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

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

Representative Information:

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

Please Select One:	<input checked="" type="radio"/> Customer Number	<input type="radio"/> US Patent Practitioner	<input type="radio"/> Limited Recognition (37 CFR 11.9)
Customer Number	000113243		

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	
		Application Number	
Title of Invention	REMOTE DOCUMENT RETRIEVAL AND STORAGE SYSTEM		

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 this information in the application data sheet constitutes the specific reference required by 35 U.S.C. 119(e) or 120, and 37 CFR 1.78.

When referring to the current application, please leave the application number blank.

Prior Application Status	<u>Pending</u>		Remove		
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)		
	<u>Continuation of</u>	<u>13840892</u>	<u>2013-03-15</u>		
Prior Application Status	<u>Abandoned</u>		Remove		
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)		
<u>13840892</u>	<u>Continuation of</u>	<u>13272936</u>	<u>2011-10-13</u>		
Prior Application Status	<u>Abandoned</u>		Remove		
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)		
<u>13272936</u>	<u>Continuation of</u>	<u>12902973</u>	<u>2010-10-12</u>		
Prior Application Status	<u>Patented</u>		Remove		
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)	Patent Number	Issue Date (YYYY-MM-DD)
<u>12902973</u>	<u>Continuation of</u>	<u>12489087</u>	<u>2009-06-22</u>	<u>7836067</u>	<u>2010-11-16</u>
Prior Application Status	<u>Patented</u>		Remove		
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)	Patent Number	Issue Date (YYYY-MM-DD)
<u>12489087</u>	<u>Continuation of</u>	<u>11202790</u>	<u>2005-08-12</u>	<u>7552118</u>	<u>2009-06-23</u>
Prior Application Status	<u>Patented</u>		Remove		
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)	Patent Number	Issue Date (YYYY-MM-DD)
<u>11202790</u>	<u>Continuation of</u>	<u>10104541</u>	<u>2002-03-22</u>	<u>6963866</u>	<u>2005-11-08</u>
Prior Application Status	<u>Patented</u>		Remove		
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)	Patent Number	Issue Date (YYYY-MM-DD)
<u>10104541</u>	<u>Continuation of</u>	<u>09548490</u>	<u>2000-04-13</u>	<u>6446072</u>	<u>2002-09-03</u>
Prior Application Status	<u>Expired</u>		Remove		
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)		
<u>09548490</u>	<u>Continuation of</u>	<u>60129021</u>	<u>1999-04-13</u>		
Additional Domestic Benefit/National Stage Data may be generated within this form by selecting the Add button.					

Foreign Priority Information:

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

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	
		Application Number	
Title of Invention	REMOTE DOCUMENT RETRIEVAL AND STORAGE SYSTEM		

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 ^j	Filing Date (YYYY-MM-DD)	Access Code ^j (if applicable)	Remove

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

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

☐ This application (1) claims priority to or the benefit of an application filed before March 16, 2013 and (2) also contains, or contained at any time, a claim to a claimed invention that has an effective filing date on or after March 16, 2013.

NOTE: By providing this statement under 37 CFR 1.55 or 1.78, this application, with a filing date on or after March 16, 2013, will be examined under the first inventor to file provisions of the AIA.

Authorization to Permit Access:

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

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

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	
		Application Number	
Title of Invention	REMOTE DOCUMENT RETRIEVAL AND STORAGE SYSTEM		

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

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

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

Applicant Information:

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

Applicant 1

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

Clear

☐ Assignee

☐ Legal Representative under 35 U.S.C. 117

☐ Joint Inventor

☐ Person to whom the inventor is obligated to assign.

☐ Person who shows sufficient proprietary interest

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

Name of the Deceased or Legally Incapacitated Inventor :

If the Applicant is an Organization check here. ☐

Prefix	Given Name	Middle Name	Family Name	Suffix

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Application Data Sheet 37 CFR 1.76		Attorney Docket Number	
		Application Number	
Title of Invention	REMOTE DOCUMENT RETRIEVAL AND STORAGE SYSTEM		

Mailing Address Information For Applicant:			
Address 1			
Address 2			
City		State/Province	
Country		Postal Code	
Phone Number		Fax Number	
Email Address			
Additional Applicant Data may be generated within this form by selecting the Add button.			

Assignee Information including Non-Applicant Assignee Information:

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

Assignee 1			
Complete this section if assignee information, including non-applicant assignee information, is desired to be included on the patent application publication. An assignee-applicant identified in the "Applicant Information" section will appear on the patent application publication as an applicant. For an assignee-applicant, complete this section only if identification as an assignee is also desired on the patent application publication.			
If the Assignee or Non-Applicant Assignee is an Organization check here. <input checked="" type="checkbox"/>			
Organization Name	Mirror Imaging, LLC		
Mailing Address Information For Assignee including Non-Applicant Assignee:			
Address 1		27500 Donald Court	
Address 2			
City	Warren	State/Province	MI
Country	US	Postal Code	48092
Phone Number		Fax Number	
Email Address			
Additional Assignee or Non-Applicant Assignee Data may be generated within this form by selecting the Add button.			

Signature:

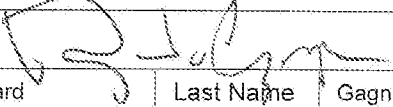
NOTE: This form must be signed in accordance with 37 CFR 1.33. See 37 CFR 1.4 for signature requirements and certifications.			
Signature			Date (YYYY-MM-DD) 2015-10-09

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	
		Application Number	
Title of Invention	REMOTE DOCUMENT RETRIEVAL AND STORAGE SYSTEM		

First Name	Michael	Last Name	Schulze	Registration Number	
Additional Signature may be generated within this form by selecting the Add button.					

Signature:

NOTE: This form must be signed in accordance with 37 CFR 1.33. See 37 CFR 1.4 for signature requirements and certifications.					
Signature				Date (YYYY-MM-DD)	2015-10-09
First Name	Richard	Last Name	Gagnon	Registration Number	
Additional Signature may be generated within this form by selecting the Add button.					

This collection of information is required by 37 CFR 1.76. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 23 minutes to complete, including gathering, preparing, and submitting the completed application data sheet form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

Privacy Act Statement

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

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

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

Electronic Acknowledgement Receipt

EFS ID:	23749764
Application Number:	14857854
International Application Number:	
Confirmation Number:	2781
Title of Invention:	REMOTE DOCUMENT RETRIEVAL AND STORAGE SYSTEM
First Named Inventor/Applicant Name:	Michael D. Schulze
Correspondence Address:	Michael Schulze - Apt. #103 1607 Kirts Blvd Troy MI 48084 US 5868508143 michaelschulze@hotmail.com
Filer:	Michael Schulze
Filer Authorized By:	
Attorney Docket Number:	
Receipt Date:	10-OCT-2015
Filing Date:	18-SEP-2015
Time Stamp:	12:34:14
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no
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File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Applicant Response to Pre-Exam Formalities Notice	Responsetomissingpartswhichi sads.pdf	7416117 b46aea67e87e649652bbabb0a1d00789729d8bce	no	10

Warnings:

Information:

Total Files Size (in bytes):	7416117
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This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

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

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

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

New International Application Filed with the USPTO as a Receiving Office

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



UNITED STATES PATENT AND TRADEMARK OFFICE

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

APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
14/857,854	09/18/2015	Michael D. Schulze	

Michael Schulze
Apt. #103
1607 Kirts Blvd
Troy, MI 48084

CONFIRMATION NO. 2781
FORMALITIES LETTER



Date Mailed: 10/01/2015

NOTICE TO FILE MISSING PARTS OF NONPROVISIONAL APPLICATION

FILED UNDER 37 CFR 1.53(b)

Filing Date Granted

Items Required To Avoid Abandonment:

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- A mailing address for each inventor has not been submitted. A new application data sheet (ADS) in compliance with 37 CFR 1.76 or inventor's oath or declaration in compliance with 37 CFR 1.63 identifying the mailing address and residence (if the inventor lives at a location which is different from where the inventor customarily receives mail) is required.

Michael D. Schulze
Richard J. Gagnon

Items Required To Avoid Processing Delays:

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

- The ADS received on 09/18/2015 was not properly signed. Therefore, the Office will treat it only as a transmittal letter. See 37 CFR 1.76(e). Inventorship has not been set by this document and any foreign priority or domestic benefit claims contained therein are ineffective. See 37 CFR 1.55 or 37 CFR 1.78.

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

Replies should be mailed to:

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

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

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

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

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**.

/cnguyen/

PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875						Application or Docket Number 14/857,854				
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(j))	10 minus 20 =	*			OR	x 80 =	0.00			
INDEPENDENT CLAIMS (37 CFR 1.16(h))	1 minus 3 =	*				x 420 =	0.00			
APPLICATION SIZE FEE (37 CFR 1.16(s))	If the specification and drawings exceed 100 sheets of paper, the application size fee due is \$310 (\$155 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).						0.00			
MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))							0.00			
* If the difference in column 1 is less than zero, enter "0" in column 2.				TOTAL		TOTAL	1600			
APPLICATION AS AMENDED - PART II										
(Column 1)		(Column 2)		(Column 3)		SMALL ENTITY		OR OTHER THAN SMALL ENTITY		
AMENDMENT A		CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE(\$)	ADDITIONAL FEE(\$)		RATE(\$)	ADDITIONAL FEE(\$)
	Total (37 CFR 1.16(i))	*	Minus	**	=	x =		OR	x =	
	Independent (37 CFR 1.16(h))	*	Minus	***	=	x =		OR	x =	
	Application Size Fee (37 CFR 1.16(s))							OR		
	FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							OR		
						TOTAL ADD'L FEE		OR	TOTAL ADD'L FEE	
AMENDMENT B		CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE(\$)	ADDITIONAL FEE(\$)		RATE(\$)	ADDITIONAL FEE(\$)
	Total (37 CFR 1.16(i))	*	Minus	**	=	x =		OR	x =	
	Independent (37 CFR 1.16(h))	*	Minus	***	=	x =		OR	x =	
	Application Size Fee (37 CFR 1.16(s))							OR		
	FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							OR		
						TOTAL ADD'L FEE		OR	TOTAL ADD'L FEE	
* If the entry in column 1 is less than the entry in column 2, write "0" in column 3. ** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20". *** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3". The "Highest Number Previously Paid For" (Total or Independent) is the highest found in the appropriate box in column 1.										



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APPLICATION NUMBER	FILING or 371(c) DATE	GRP ART UNIT	FIL FEE REC'D	ATTY. DOCKET NO	TOT CLAIMS	IND CLAIMS
14/857,854	09/18/2015	3693	1600		10	1

CONFIRMATION NO. 2781

FILING RECEIPT



000000007776428

Michael Schulze
Apt. #103
1607 Kirts Blvd
Troy, MI 48084

Date Mailed: 10/01/2015

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

Inventor(s)

Michael D. Schulze, Residence Not Provided;
Richard J. Gagnon, Residence Not Provided;

Applicant(s)

Michael D. Schulze, Residence Not Provided;
Richard J. Gagnon, Residence Not Provided;

Assignment For Published Patent Application

Mirror Imaging L.L.C., Warren, MI

Power of Attorney: None

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.

If Required, Foreign Filing License Granted: 09/30/2015

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 14/857,854**

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

Non-Publication Request: No

Early Publication Request: No

Title

REMOTE DOCUMENT RETRIEVAL AND STORAGE SYSTEM

Preliminary Class

705

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.

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For information on preventing theft of your intellectual property (patents, trademarks and copyrights), you may wish to consult the U.S. Government website, <http://www.stopfakes.gov>. Part of a Department of Commerce initiative, this website includes self-help "toolkits" giving innovators guidance on how to protect intellectual property in specific countries such as China, Korea and Mexico. For questions regarding patent enforcement issues, applicants may call the U.S. Government hotline at 1-866-999-HALT (1-866-999-4258).

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APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
14/857,854	09/18/2015	Michael D. Schulze	

Michael Schulze
Apt. #103
1607 Kirts Blvd
Troy, MI 48084

CONFIRMATION NO. 2781 MISCELLANEOUS NOTICE



Date Mailed: 10/01/2015

A communication which cannot be delivered in electronic form has been mailed to the applicant.



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APPLICATION NUMBER	FILING DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
14/857,854	09/18/2015	Michael D. Schulze	

CONFIRMATION NO. 2781

Michael Schulze
Apt. #103
1607 Kirts Blvd
Troy, MI 48084



OC000000077776374

Date Mailed: 10/01/2015

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

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B. Nguyen

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

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Application Number

14/857,854

Filing Date

09-18-2015

First Named Inventor

Schulze

Art Unit

2162

Examiner Name

Attorney Docket Number

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Applicant



Attorney or agent of record. Registration Number _____.



Registered practitioner named in the application transmittal papers who acts in a representative capacity under 37 CFR 1.34. See 37 CFR 1.33(a)(1). Registration Number _____.

Signature /Michael Schulze/

Typed or Printed
Name

Michael Schulze

Date 09-21-2015

Telephone

586-850-8143

NOTE: This form must be signed in accordance with 37 CFR 1.33. See 37 CFR 1.4(d) 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 1.33. 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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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.
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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.
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Electronic Acknowledgement Receipt

EFS ID:	23546162
Application Number:	14857854
International Application Number:	
Confirmation Number:	2781
Title of Invention:	REMOTE DOCUMENT RETRIEVAL AND STORAGE SYSTEM
First Named Inventor/Applicant Name:	Michael D. Schulze
Correspondence Address:	Michael Schulze 1607 Kirts Blvd Apt. #103 Troy MI 48084 US 586-850-8143 michaelschulze@hotmail.com
Filer:	Michael Schulze
Filer Authorized By:	
Attorney Docket Number:	
Receipt Date:	21-SEP-2015
Filing Date:	
Time Stamp:	09:03:17
Application Type:	Utility under 35 USC 111(a)

Payment information:

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File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
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If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

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

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: Michael D. Schulze et al.

Serial No.: To Be Assigned **Group Art Unit:** 2162
(Continuation of Serial No.: 13/840,892)

Filed: Concurrent Herewith **Examiner:** To Be Assigned

Title: **REMOTE DOCUMENT RETRIEVAL AND STORAGE
SYSTEM**

PRELIMINARY AMENDMENT

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

Dear Sir:

Prior to examination of the above-identified application, please amend the subject application as follows and consider the accompanying remarks.

Amendments to the specification begin on page 2. Amendments to the Abstract begin on page 7. Amendments to the Claims begin on page 9.

Amendments to the Specification

Please amend the paragraph beginning at page 4, line 5, as follows;

This patent application is a continuation of U.S. Patent Application Serial No. 13/840,892 filed on March 15, 2013 now which is a continuation of U.S. Patent Application Serial No. 13/272,936 filed on October 13, 2011 now abandoned which is continuation of U.S. Patent Application Serial No. 12/902,973 filed on October 12, 2010 now abandoned, which is a continuation of U.S. Patent Application Serial No. 12/489,087 filed on June 22, 2009, now U.S. Patent No. 7,836,067, which is a continuation of U.S. Patent Application Serial No. 11/202,790 filed on August 12, 2005, now U.S. Patent No. 7,552,118, which is a continuation of U.S. Patent Application Serial No. 10/104,541 filed on March 22, 2002, now U.S. Patent No. 6,963,866, which is a continuation of U.S. Patent Application Serial No. 09/548,490 filed on April 13, 2000, now U.S. Patent No. 6,446,072, which in turn claims priority to and all the advantages of United States Provisional Patent Application Serial No. 60/129,021, which was filed on April 13, 1999 ~~and is entitled "REMOTE DOCUMENT RETRIEVAL AND STORAGE SYSTEM"~~.

Please amend the paragraph beginning at page 4, line 5, as follows:

A method for a financial institution to obtain electronically-stored financial documents having a specific document parameter is disclosed. The specific document parameter is typically a particular numerical sequence, such as a record date of the financial document. The method of the subject invention enables the financial institution to obtain the financial documents from a first or an off-site storage system. The first or off-site storage system is remotely-located-different from a second or an on-site storage system and is preferably remotely-located from the second or on-site storage system. In one embodiment, the ~~[[The]]~~ financial documents of the financial institution are maintained in the first or off-site storage system when the specific document parameter of the financial document is greater than a predetermined parameter. The financial documents that are less than or equal to the predetermined parameter are

maintained in the second or on-site storage system. In another embodiment, the specific document parameter of the financial document that is less than or equal to the predetermined parameter is maintained in the first or off-site storage system and the financial document that is greater than the predetermined parameter is maintained in the second or on-site storage system.

Please amend the paragraph beginning at page 4, line 15, as follows;

When the financial institution receives a request for a financial document, the financial institution compares the specific document parameter of the requested financial document to the predetermined parameter to determine if the specific document parameter is greater than, less than, or equal to the predetermined parameter. A computer terminal located at the financial institution is connected to both the off-site and on-site storage systems through a processing unit. ~~The computer terminal~~ processing unit is utilized to, at least partially, automatically access one of the storage systems in response to the comparison of the specific document parameter to the predetermined parameter. For instance, if it is determined that the specific document parameter is less than or equal to the predetermined document parameter, then the ~~computer terminal~~ processing unit accesses the second or on-site storage system. On the other hand, if it is determined that the specific document parameter of the financial document is greater than the predetermined parameter, then the ~~computer terminal~~ processing unit accesses the first or off-site storage system. As stated below, the computer terminal may be used to feed a request into the processing unit.

Please delete the paragraph beginning at page 5, line 5, and ending at page 5, line 12.

Please amend the paragraph beginning at page 5, line 13, as follows;

~~Finally, after the identification data of~~ After the requested financial document is accessed ~~inputted~~, the requested document is then retrieved in order to reproduce the financial document, and distribute the financial document to an end user of the financial institution.

Please amend the paragraph beginning at page 5, line 16, as follows;

The subject invention therefore provides a method that enables financial institutions to obtain electronically-stored financial documents from ~~[[an]]~~ on-site and off-site storage systems ~~system via a secondary interface that is specifically inter linked with the off-site storage system and the financial documents electronically stored in that system~~. As such, the financial institution can selectively store financial documents in either an on-site storage system or the off-site storage system, and the responsibility for the financial documents in the on-site or off-site storage systems ~~system~~ can be outsourced to a third party entity. Further, the documents can be stored in different fixed mediums, such as microfiche, microfilm, digitally, electronically, etc., and can be stored in different geographical locations. Therefore, the back office production of the financial institution associated with the retrieval and distribution of financial documents stored in the on-site or off-site storage systems ~~system~~ is strategically reduced or even completely eliminated.

Please amend the paragraph beginning at page 6, line 20, as follows;

Referring to the Figures, wherein like numerals indicate like or corresponding parts throughout the several views, a method for a financial institution to obtain an

electronically-stored financial document is schematically shown at 10 in Figure 1. The method introduced in the subject invention enables the financial institution to obtain the financial document from one of a first or an off-site storage system and remotely located from a second or an on-site storage system with the storage systems being different from each other. Preferably, the on-site storage system is located at the financial institution and the off-site storage system is located at a remote location distant from the financial institution. This allows the financial institution to 'outsource' the responsibilities associated with obtaining the financial document.

Please amend the paragraph beginning at page 10, line 7, as follows;

Referring now to Figure 1, the method for banks to obtain electronically-stored financial documents is discussed in detail in accordance with a general scope of the subject invention. Initially, the requesting client requests a particular financial document, such as a paid check. The client is typically a customer of the bank or other financial institution. The client's request is inputted into a computer terminal 11 at the financial institution. The computer terminal 11 will be discussed in more detail hereinbelow.

Please amend the paragraph beginning at page 10, line 13, as follows;

From the computer terminal 11, the request is fed into a processing unit 12, which is illustrated as a mainframe computer 12 at the bank. In the preferred embodiment of the subject invention, if the client requests a financial document having a record date earlier than or equal to one year before the current date, then the request, and other requests like it, are processed at the bank in the on-site storage system. That is, the requests are grouped together and downloaded to a downloading terminal 14 at the bank. The downloading may occur at particular intervals such as at the end of each day, every three hours, etc. The sequence number of each check requested is then

determined. A document terminal 16 subsequently creates or reproduces the document, i.e., a photocopy of the check. The photocopy is then distributed to the client via facsimile, mail, or hand delivery.

Please amend the paragraph beginning at page 13, line 2, as follows;

[[A]] In accordance with one contemplated embodiment of the invention, a bank employee, such as a bank teller first determines a status of the requested document. More specifically, the employee compares the specific document parameter of the requested financial document to the predetermined parameter to determine if the specific document parameter is greater than, less than, or equal to the predetermined parameter. If the specific document parameter is a particular numerical sequence and the predetermined parameter is a predetermined numerical value, then the employee compares the particular numerical sequence of the financial document to the predetermined numerical value to determine if the particular numerical sequence is greater than, less than, or equal to the predetermined numerical value. Further, if as in the preferred embodiment, the particular numerical sequence is a record date of the financial document, and the predetermined numerical value is a pre-selected date, then the employee compares the record date of the financial document to the pre-selected date to determine if the record date is later than, earlier than, or equal to the pre-selected date.

Amendments to the Abstract

Please amend the Abstract as follows;

~~A method for a bank to obtain an electronically stored financial document is disclosed. The financial document includes a specific document parameter, such as a record date. The bank maintains the financial document in an off site storage system when the record date is later than a pre-selected date and in an on-site storage system when the record date is earlier than or equal to the pre-selected date. The off site storage system is different remotely located from the on-site storage system. The bank receives and inputs a request for the financial document from a client and compares the record date to the pre-selected date to determine if the record date is later than, earlier than, or equal to the pre-selected date. In processing the request, the bank utilizes a computer terminal, connected to the off site and on-site storage systems through a processing unit, to access one of the storage systems in response to the comparison of the record date to the pre-selected date. After accessing the appropriate storage system, the bank inputs data into the computer terminal to identify the requested financial document and then retrieves the requested financial document. The bank then reproduces the requested financial document and distributes the requested financial document to the requesting client, or some other end-user of the bank.~~

An electronically stored financial document is either maintained in a first storage system when a parameter associated with the document is greater than a pre-selected parameter or in a second storage system when the parameter associated with the document is less than or equal to the pre-selected parameter. A request for a stored financial document is received and the requested financial document parameter is compared to the pre-selected financial document parameter to determine if the electronically stored financial document's parameter is more than, less than, or equal to the pre-selected parameter. In processing the request, a processing unit compares and electronically accesses one of the storage systems in response to the comparison of the pre-selected parameter to the electronically

stored financial document's parameters. After accessing the appropriate storage system, the requested electronically stored financial document can be reproduced, and/or distributed.

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application.

1. - 22. (Cancelled).

23. A system comprising:

- a. a first storage system including a first fixed medium, the first storage system configured to:
 - i. store a plurality of financial documents wherein each financial document has an electronic image in the first fixed medium when a specific document parameter of a financial document is greater than a predetermined parameter;
- b. a second storage system including a second fixed medium, the second storage system configured to:
 - i. store a plurality of financial documents wherein each financial document has an electronic image in the second fixed medium when the specific document parameter is less than or equal to the predetermined parameter;
- c. a processor which has electronic access to the first and second storage systems, wherein the processor is configured to:
 - i. receive a request for an image of one of the stored financial documents;
 - ii. compare a specific requested document parameter of a requested financial document to the predetermined parameter, wherein the specific document parameter of the financial document is a particular numerical sequence associated with the specific document parameter, and wherein the particular numerical sequence of the financial document includes a record date of the financial document;

- iii. access the first storage system when the specific requested document parameter is greater than the predetermined parameter;
- iv. access the second storage system when the specific requested document parameter is less than or equal to the predetermined parameter;
- v. retrieve the image of the requested financial document from the first or second storage system once the storage system has been accessed.

24. A system as set forth in claim 23 wherein the first and second fixed mediums are different from each other.

25. A system as set forth in claim 23 wherein storing a plurality of financial documents in a first fixed medium is further defined as storing a plurality of financial documents on a physical media.

26. A system as set forth in claim 23 wherein storing a plurality of financial documents in a second fixed medium is further defined as electronically storing the plurality of financial documents in a fixed electronic medium.

27. A system as set forth in claim 23 wherein storing a plurality of financial documents in a first fixed medium is further defined as electronically storing the plurality of financial documents in a fixed electronic medium.

28. A system as set forth in claim 23 wherein storing a plurality of financial documents in a second fixed medium is further defined as storing a plurality of financial documents on a physical media.

29. A system as set forth in claim 23 wherein the first and second fixed mediums are the same.

30. A system as set forth in claim 23 wherein storing a plurality of financial documents in a first fixed medium is further defined as electronically storing the plurality of financial documents in a first fixed electronic medium, and wherein storing a plurality of financial documents in a second fixed medium is further defined as electronically storing the plurality of financial documents in a second fixed electronic medium.

31. A system as set forth in claim 23 further including reproducing the requested financial document after the requested financial document has been retrieved from the accessed storage system.

32. A system as set forth in claim 23 wherein accessing the first and second storage systems is further defined as accessing only one of the storage systems at any one time to locate the requested financial document.

Remarks

The subject continuation patent application is being filed for continued prosecution of the claims set forth in the parent application. The assigned art unit of the parent application is identified above.

The specification has been amended to set forth a proper claim of priority as is required by 35 U.S.C. 120 and to coincide with the terminology of the claims. No new matter is being introduced.

After entry of the subject preliminary amendment, claims 23-32 will remain pending in the application. Claims 1-22 are currently being cancelled and claims 23-32 are being added. No new matter is being introduced.

It is respectfully submitted that the Application, as amended, is now presented in condition for examination.

Respectfully submitted,

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REMOTE DOCUMENT RETRIEVAL AND STORAGE SYSTEM

RELATED APPLICATIONS

5 This patent application is a continuation of U.S. Patent Application Serial No. 13/840,892 filed on March 15, 2013 now _____ which is a continuation of U.S. Patent Application Serial No. 13/272,936 filed on October 13, 2011 now abandoned which is continuation of U.S. Patent Application Serial No. 12/902,973 filed on October 12, 2010 now abandoned, which is a continuation of U.S. Patent Application Serial No. 12/489,087 filed on June 22, 2009, now U.S. Patent No. 7,836,067, which is a continuation of U.S. Patent Application Serial No. 11/202,790 filed on August 12, 2005, now U.S. Patent No. 7,552,118, which is a continuation of U.S. Patent Application Serial No. 10/104,541 filed on March 22, 2002, now U.S. Patent No. 6,963,866, which is a continuation of U.S. Patent Application Serial No. 09/548,490 filed on April 13, 2000, now U.S. Patent No. 6,446,072, which in turn claims priority to and all the advantages of United States Provisional Patent Application Serial No. 60/129,021, which was filed on April 13, 1999 ~~and is entitled "REMOTE DOCUMENT RETRIEVAL AND STORAGE SYSTEM"~~.

BACKGROUND OF THE INVENTION

1) TECHNICAL FIELD

20 The subject invention relates to a method for a financial institution to obtain electronically-stored financial documents from an off-site storage system remotely-located from an on-site storage system.

2) DESCRIPTION OF THE PRIOR ART

5 Methods for obtaining electronically-stored financial documents are generally known in the art. Financial institutions, such as banks and credit unions, utilize such methods to rapidly and efficiently obtain financial documents for distribution to clients upon request. Such financial documents include paid checks, account statements, and other related documents. These financial documents are typically stored on microfiche,
10 microfilm, digitally, or by some other electronic storage means. Further, these financial documents are typically electronically-stored in an on-site storage system located at the financial institution or in an off-site storage system. Electronic storage of these financial documents permits financial institutions to eliminate storage of paper or "hard" copies of these documents. The electronic storage of these documents also provides a means of
15 retrieving the information from the on-site and off-site storage systems.

 Once the document is stored, the client may request an image of a particular stored document. Client requests are made to replace lost or stolen documents, for tax purposes, for proof of financial transactions, for legal disputes, and other similar matters. The client's request is inputted into a computer terminal at the financial institution. More
20 specifically, conventional methods for obtaining an electronically-stored financial document enable an employee of the financial institution, such as a bank teller, to input

the request into an interface incorporated into the computer terminal. The interface is inter-linked with the on-site storage system. Typically, all requests for a particular period are grouped together and subsequently downloaded for retrieval of the requested image by the financial institution. The financial institution retrieves the image, e.g. a photocopy of the check, and then distributes the photocopy to the client via facsimile, mail or hand delivery. The storing, downloading, and retrieving of the financial document, including the reproduction and the distribution of the document, are known in the industry as back office production. Back office production for financial institutions is particularly resource intensive, time consuming, and expensive. Also, back office production becomes increasingly expensive if the client requests a particularly old financial document because older financial documents frequently require more resources and time to locate and retrieve.

The majority of financial institutions electronically store financial documents only in an on-site storage system and not in an off-site storage system. Consequently, these financial institutions are unable to outsource the responsibilities for the back office production to third party entities to alleviate the expenses and resources associated with the back office production. These financial institutions realize a significant financial burden since the back office production is concentrated strictly at the financial institution.

Other financial institutions do electronically store financial documents in on-site and off-site storage systems. However, the methods utilized by these financial institutions to access the financial documents stored in the off-site storage system are deficient in that the

interface utilized in such methods is only inter-linked with the on-site storage system. That is, there is no interface independently inter-linked with the off-site storage system. As a result, the financial documents stored in the off-site storage system can not be efficiently accessed. These financial institutions are still responsible for retrieving the requested financial documents through their back office production and their expenses remain high. One such method of retrieving documents from on-site and off-sited storage systems is disclosed in United States Patent No. 5,784,610 to Copeland, III et al.

Due to the inefficiencies identified in the conventional methods used by financial institutions to obtain financial documents, it is desirable to implement a method for a financial institution to obtain electronically-stored financial documents from both on-site and off-site storage systems that reduces, if not eliminates, the back office production of the financial institution by providing a direct interface inter-linked with the off-site storage system. With such an interface, the responsibility for retrieving financial documents from the off-site storage can be outsourced to third party entities while still providing the financial institution with efficient access to any financial documents electronically-stored in the off-site storage system.

SUMMARY OF THE INVENTION AND ADVANTAGES

A method for a financial institution to obtain electronically-stored financial documents having a specific document parameter is disclosed. The specific document parameter is typically a particular numerical sequence, such as a record date of the

financial document. The method of the subject invention enables the financial institution to obtain the financial documents from a first or an off-site storage system. The first or off-site storage system is ~~remotely-located~~ different from a second or an on-site storage system and is preferably remotely-located from the second or on-site storage system. In
5 one embodiment, the ~~[[The]]~~ financial documents of the financial institution are maintained in the first or off-site storage system when the specific document parameter of the financial document is greater than a predetermined parameter. The financial documents that are less than or equal to the predetermined parameter are maintained in the second or on-site storage system. In another embodiment, the specific document
10 parameter of the financial document that is less than or equal to the predetermined parameter is maintained in the first or off-site storage system and the financial document that is greater than the predetermined parameter is maintained in the second or on-site storage system.

When the financial institution receives a request for a financial document, the
15 financial institution compares the specific document parameter of the requested financial document to the predetermined parameter to determine if the specific document parameter is greater than, less than, or equal to the predetermined parameter. A computer terminal located at the financial institution is connected to both the off-site and on-site storage systems through a processing unit. The ~~computer-terminal~~ processing unit is
20 utilized to, at least partially, automatically access one of the storage systems in response to the comparison of the specific document parameter to the predetermined parameter.

For instance, if it is determined that the specific document parameter is less than or equal to the predetermined document parameter, then the ~~computer terminal~~ processing unit accesses the second or on-site storage system. On the other hand, if it is determined that the specific document parameter of the financial document is greater than the predetermined parameter, then the ~~computer terminal~~ processing unit accesses the first or off-site storage system. As stated below, the computer terminal may be used to feed a request into the processing unit.

~~After the computer terminal accesses the appropriate storage system, identification data of the requested financial document is inputted into the computer. More specifically, to access the on site storage system, the identification data is input into a primary interface that is specifically inter linked with the on site storage system. To access the off site storage system, an mdt function is selected at the primary interface and the identification data is then input into a secondary interface that is initiated upon selection of the exit function. The secondary interface is specifically inter linked with the off site storage system.~~

~~Finally, after the identification data of~~ After the requested financial document is accessed ~~inputted~~, the requested document is then retrieved in order to reproduce the financial document, and distribute the financial document to an end user of the financial institution.

The subject invention therefore provides a method that enables financial

institutions to obtain electronically-stored financial documents from ~~[[an]]~~ on-site and
off-site storage systems ~~system via a secondary interface that is specifically inter linked~~
~~with the off site storage system and the financial documents electronically stored in that~~
~~system~~. As such, the financial institution can selectively store financial documents in
5 either an on-site storage system or the off-site storage system, and the responsibility for
the financial documents in the on-site or off-site storage systems ~~system~~ can be
outsourced to a third party entity. Further, the documents can be stored in different fixed
mediums, such as microfiche, microfilm, digitally, electronically, etc., and can be stored
in different geographical locations. Therefore, the back office production of the financial
10 institution associated with the retrieval and distribution of financial documents stored in
the on-site or off-site storage systems ~~system~~ is strategically reduced or even completely
eliminated.

BRIEF DESCRIPTION OF THE DRAWINGS

Other advantages of the present invention will be readily appreciated as the same
15 becomes better understood by reference to the following detailed description when
considered in connection with the accompanying drawings wherein:

Figure 1 is a flow diagram schematically detailing an on-site storage system, and an
off-site storage system in accordance with the subject invention;

Figure 2 is a block diagram generally representing a method for a financial
20 institution to obtain electronically-stored financial documents from the on-site and off-site
storage systems;

Figure 3 is a block diagram completing the method of obtaining electronically-stored financial documents from the on-site storage system; and

Figure 4 is a block diagram completing the method of obtaining electronically-stored financial documents from the off-site storage system.

5

DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENT

Referring to the Figures, wherein like numerals indicate like or corresponding parts throughout the several views, a method for a financial institution to obtain an electronically-stored financial document is schematically shown at 10 in Figure 1. The method introduced in the subject invention enables the financial institution to obtain the financial document from one of a first or an off-site storage system and remotely located from a second or an on-site storage system with the storage systems being different from each other. Preferably, the on-site storage system is located at the financial institution and the off-site storage system is located at a remote location distant from the financial institution. This allows the financial institution to 'outsource' the responsibilities associated with obtaining the financial document.

10
15

Methods for financial institutions to obtain electronically-stored documents are frequently used by such entities as banks, credit unions, and other financially-oriented institutions. For illustrative purposes only, the description of the subject invention is discussed with reference to banks. However, as appreciated by those skilled in the art,

20

other businesses, such as insurance companies, may also utilize similar methods and incorporate the aspects of the subject invention.

Methods for banks to obtain electronically-stored financial documents are generally used by banks to rapidly and efficiently obtain financial documents for
5 distribution to clients upon request. As described above, the financial documents for banks are usually paid checks, checking statements, and other related financial documents, and these documents include at least one specific document parameter. As appreciated by those skilled in the art, it is not the financial document (e.g. the paid check) itself that is electronically-stored. Rather, it is data included on the document such
10 as a sequence number that is electronically stored to make up the financial document. The specific document parameter is preferably a particular numerical sequence. As appreciated, the specific document parameter of the financial document can include, but is not limited to, a record date or age of the document, a series number, or some other document identifying number of the financial document. More specifically, in the
15 preferred embodiment of the subject invention, the particular numerical sequence of the financial document is the record date of the financial document. That is, the date that the particular financial document was created or posted.

The financial documents are typically stored on microfiche, microfilm, digitally, or by some other electronic storage means. As appreciated, the electronic storage of the
20 financial documents is frequently created by taking an electronic photo image of the document and storing the photo image in a computer system. One such digital electronic

storage device is sold by Kodak under the name of *IMAGELINK*[™] Digital Workstation (IDW). Electronic storage of these financial documents permits banks to eliminate storage of paper or "hard" copies of these documents. The electronic storage of these documents also provides an efficient means of retrieving the information from the on-site and off-site storage systems. This will be discussed further herein below.

As described above, the financial documents are electronically-stored in either the on-site storage system located at the bank or in the off-site storage system remotely located from the on-site storage system. More specifically, the subject invention includes the step of maintaining the financial documents in the off-site storage system when the specific document parameter of the financial document is greater than a predetermined parameter. Financial documents are maintained in the on-site storage system when the specific document parameter of the financial document is less than or equal to the predetermined parameter. As appreciated, the document parameter of the financial documents stored in the off-site storage system may be greater than or equal to the predetermined parameter with the on-site storage system having documents only less than the predetermined parameter.

Similar to the specific document parameter of the financial document, the predetermined parameter is also a numerical value. The predetermined parameter is specifically a numerical value predetermined by the bank. For instance, if the specific document parameter is a series number of a paid check and the series number is greater

than the predetermined parameter which, in this case, would be an arbitrarily selected base series number, then the paid check would be stored in the off-site storage system.

In the preferred embodiment of the subject invention, the predetermined numerical value is a date pre-selected by the bank. For instance, the bank may pre-select a date that
5 is one year before a current date-the current date being the actual date that the client requests the financial document. Of course, the bank may pre-select a date that is some other time period before a current date (e.g. two or three years) without varying from the scope of the subject invention. As such, if the record date of the particular financial document is older than one year, then the particular financial document is maintained in
10 the off-site storage system. If the record date of the particular financial document is earlier than or equal to one year, then the particular financial document is maintained in the on-site storage system. As discussed above, the document having record dates equal to the one year may be stored in the off-site or on-site storage systems.

Once the financial document is maintained in the appropriate storage system, the
15 bank is capable of receiving a request for the financial document from the client. In reality, the client is requesting an image of the stored financial document. As appreciated, clients request the image for various reasons. As discussed above, requests are typically made for replacing lost or stolen financial documents, for tax purposes, for proof of financial transactions, for legal disputes, and other similar matters. Ultimately,
20 the bank retrieves the image, reproduces the image, and distributes the reproduced image to the requesting client of the bank.

Referring now to Figure 1, the method for banks to obtain electronically-stored financial documents is discussed in detail in accordance with a general scope of the subject invention. Initially, the requesting client requests a particular financial document, such as a paid check. The client is typically a customer of the bank or other financial institution. The client's request is inputted into a computer terminal 11 at the financial institution. The computer terminal 11 will be discussed in more detail hereinbelow.

From the computer terminal 11, the request is fed into a processing unit 12, which is illustrated as a mainframe computer 12 at the bank. In the preferred embodiment of the subject invention, if the client requests a financial document having a record date earlier than or equal to one year before the current date, then the request, and other requests like it, are processed at the bank in the on-site storage system. That is, the requests are grouped together and downloaded to a downloading terminal 14 at the bank. The downloading may occur at particular intervals such as at the end of each day, every three hours, etc. The sequence number of each check requested is then determined. A document terminal 16 subsequently creates or reproduces the document, i.e., a photocopy of the check. The photocopy is then distributed to the client via facsimile, mail, or hand delivery.

It is known in the art that the majority of requests for financial documents are requests for documents which were created in the most recent year. That is, if the pre-selected date is one year before the current date, as in the preferred embodiment, then the majority of requests are seeking financial documents having a record date earlier than or

equal to the pre-selected date. The remaining document requests relate to financial documents that are older than one year. Since, as described in the Background of the Invention, retrieval of financial documents that are older than one year is particularly expensive, the preferred embodiment of the subject invention outsources all of the document requests which relate to documents having a record date later than one year before the current date. As appreciated, the particular time frame which is outsourced is not a critical feature of the subject invention and may be adjusted to meet the needs of any particular financial institution. In fact, all of the document requests, including the most recent, may be outsourced using the outsourcing procedure of the subject invention.

10 In the preferred embodiment, if the client requests a financial document having a record date later than one year before the current date, then the request, and others like it, are grouped together and downloaded from the mainframe computer 12 to an outsourced downloading terminal 18. As above, the downloading may be at particular intervals as needed. The sequence number is determined by a sequencing terminal 20. The sequence number is then sent back to the outsourced downloading terminal 18. An outsourced document terminal 22 then creates or reproduces the desired document which is then distributed to either the client or the bank. As appreciated, two document retrieval operations, one for the bank to retrieve financial documents having record dates earlier than or equal to one year before the current date, and another to retrieve outsourced financial documents having record dates later than one year before the current date, preferably operate simultaneously. It is to be understood that the computer terminals and the

accompanying PC bases are illustrated highly schematically in Figure 1 and are not intended to be limiting in any manner. For instance, the schematic illustration of the outsourced document terminal 22 need not include a computer terminal and an accompanying PC base. Instead, the outsourced document terminal 22 is preferably some sort of printing device.

5 Referring to Figures 2 through 4, the method for banks to obtain electronically-stored financial documents is described in even greater detail. The request is first generated by the client. The request is then processed by the bank. The processing, retrieval and reproduction of the requested financial document is typically controlled by one interlinked computer software program. One such computer software program is a software
10 program called Antinori Software Incorporated or ASI which is sold under the name of *INNOVATION*TM by Carreker-Antinori of Dallas, Texas. However, other frequently used software programs include *PEGA*TM and *Sterling*TM. Any of these computer software systems can provide the necessary means for implementing the discussed procedures.

The processing of the request is completed by a customer service tracking system
15 and the computer terminal 11. The customer service tracking system assists the financial institution in receiving the request. More specifically, the customer service tracking system gives branches, customer service, and other bank departments the capability to enter, log, track, route and monitor the status of all requests for financial documents. The customer service tracking system also provides the capability to enter, log, track, route and
20 monitor the status of customer complaints and other customer service related items.

[[A]] In accordance with one contemplated embodiment of the invention, a bank

employee, such as a bank teller first determines a status of the requested document. More specifically, the employee compares the specific document parameter of the requested financial document to the predetermined parameter to determine if the specific document parameter is greater than, less than, or equal to the predetermined parameter. If the
5 specific document parameter is a particular numerical sequence and the predetermined parameter is a predetermined numerical value, then the employee compares the particular numerical sequence of the financial document to the predetermined numerical value to determine if the particular numerical sequence is greater than, less than, or equal to the predetermined numerical value. Further, if as in the preferred embodiment, the particular
10 numerical sequence is a record date of the financial document, and the predetermined numerical value is a pre-selected date, then the employee compares the record date of the financial document to the pre-selected date to determine if the record date is later than, earlier than, or equal to the pre-selected date.

The customer service tracking system enables a bank employee, such as a bank
15 teller, to submit the request. More specifically, the employee utilizes the computer terminal 11 located at the bank and connected to both the off-site and on-site storage systems to access one of the storage systems in response to the comparison of the specific document parameter of the requested financial document to the predetermined parameter. For instance, when the particular numerical sequence of the financial document is greater than
20 the predetermined numerical value, the employee preferably utilizes the computer terminal 11 to access the off-site storage system, and when the particular numerical

sequence of the financial document is less than or equal to the predetermined numerical value, the employee preferably utilizes the computer terminal 11 to access the on-site storage system. As discussed above, the documents have a numerical sequence equal to the predetermined numerical value may be stored in either the off-site or on-site storage systems.

After the computer terminal 11 is utilized to access the desired storage system, the employee manually inputs identification data of the requested financial document into the computer terminal 11. More specifically, when the particular numerical sequence of the financial document is less than or equal to the predetermined numerical value, the employee inputs identification data into a primary interface and selects the requested document. Also, the primary interface preferably provides an option for the employee to select among several different output formats. The primary interface is inter-linked with the on-site storage system. In the preferred embodiment of the subject invention, the primary interface appears as follows and includes the identification data detailed below:

Account Number:		Prod Type:
Account Name:		Customer Code:
Address:		
City:	State:	Zip Code:
Home Phone: ()		Work Phone: ()
Fax: ()		
Service Code:		
For Items Posted Within A Year		
Copy of Statement Only	Savings Items	
Copy of Check/Deposit Ticket	Misc (G/L, Loans, Teller, Etc)	
Check(s)/Deposit(s)<30 Items	Cash Letter Reconstruction	
Statements and<30 Items	Lockbox	
Statements and>30 Items	Legal Statement Only	
Deposit Reconstruction	Legal Statement and Items	
Regardless of Posting Date		
Missing Transactions	Returned Items	
Online (Backdated/Unpast)	Encoding Error/Wrong Account	
<i>EXITFUNCTION</i>		

Alternatively, when the particular numerical sequence of the financial document is greater than the predetermined numerical value, the employee selects an exit function at the primary interface. The exit function distinguishes that the request is to be sent to an outsourcing third party entity. Upon selection of the exit function at the primary interface, a secondary interface, inter-linked with the exit function, is initiated. The secondary interface is inter-linked with the off-site storage system. The employee inputs identification data into the secondary interface and selects the requested document. Also,

the secondary interface preferably provides an option for the employee to select among several different output formats. Preferably, routing, or service codes will be generated automatically upon the initiation of the secondary interface and the inputting of the identification data into the secondary interface. The routing codes enable the bank to
5 recognize that the request is being sent to the outsourced third party entity. Furthermore, the routing codes are configured to automatically forward the inputted identification data to the off-site storage system. The inputted identification data and the routing codes are forwarded into the mainframe computer 12 introduced above for temporary storage before transfer to the off-site storage system. This temporary storage also serves to defend
10 against unexpected power outages, computer malfunctions, and the like. In the preferred embodiment of the subject invention, the secondary interface appears as follows and includes the identification data detailed below:

Marked-Up Substitute Specification

Account Number:	Prod Type:	
Account Name:	Customer Code:	
Address:		
City:	State:	Zip Code:
Home Phone: ()		Work Phone: ()
Fax: ()		
Service Code:		

For Items Posted Prior to a Year

Copy of Statement Only	Savings Items
Copy of Check/Deposit Ticket	Misc (G/L, Loans, Teller, Etc)
Check(s)/Deposit(s)<30 Items	Cash Letter Reconstruction
Statements and<30 Items	Lockbox
Statements and>30 Items	Legal Statement Only
Deposit Reconstruction	Legal Statement and Items

Once the bank employee has inputted the necessary identification data into either the primary or secondary interlace, then retrieval of the financial document can continue. Specifically, the requested financial document is retrieved as defined by the inputted

5 identification data. Two separate document retrieval procedures are discussed hereinbelow.

One document retrieval procedure is for the financial documents having a record date earlier than or equal to the pre-selected date-one year before the current date in this example. The other document retrieval procedure is for the financial documents having a record date later than the pre-selected date. As discussed above, the one year timing

10 selected for the pre-selected date is simply shown as an example and any suitable time frame may be utilized. In fact, even all financial document retrievals may be outsourced to

the third party entity. As also discussed above, the two separate document retrieval procedures will typically operate simultaneously.

With reference to the subject example, if the record date of the financial document is earlier than or equal to one year before the current date, the remaining steps occur at the

5 bank. As discussed above, these steps are known as the back office production of the bank.

The request is first categorized by a research automation system. The research automation system automates the entire workflow of a bank's research and photocopy departments by sending requests to the appropriate sequence for processing. The downloading terminal 14 serves to perform the research automation system's tasks.

10 Photocopy requests are routed to an image control system, statement requests are sent to a document retrieval system, and requests for financial adjustments are routed to an adjustment system. The document terminal 16 serves to perform these tasks. In the illustrated embodiment of the subject invention, the sample document request is for a paid check. Hence, the categorized sequence will be the image control system which handles
15 photocopy requests.

Referring now to Figure 3, after the request is categorized, the request is verified for completeness and accuracy. If the request is not complete then additional data is retrieved. The additional data is retrieved by using a sequence number retrieval system and/or an all items research system. Once the request is complete and accurate, then the image reference
20 number can be determined. That is, once the request is complete and accurate, then the requested financial document can be electronically located in the on-site storage system.

The reference number may be a routing, sequence, or any other type of indicator. The reference number is determined by the image control system. The image control system is an image retrieval and routing management system which works in conjunction with Kodak's *IMAGELINK*™ Digital Workstations (IDW). Specifically, the image control
5 system first connects to a network node. The network node is any type of storage device as is known in the art. Preferably a Kodak network node is used. The network node drives the IDW to find the location of the image by using the reference number. Specifically, the employee is prompted to verify that the correct media is loaded in the IDW such that the IDW can locate the image. The reference number for the document is known and the
10 document image is now verified and located.

The requested image can now be retrieved and reproduced. In other words a copy of the digitized document (the check) is created. The copy may be created by manually pulling the microfilm, microfiche, or the like and photocopying the document. The copy may also be made by printing the document from a digitized record. The photocopy of
15 the check is then distributed to the requesting client or other end user of the financial institution. Other end users of the financial institution include, but are not limited to, other financial institutions and federal and state governments. Additional information such as a photocopy report, a statement of charges, a research report and/or a daily status report may also be produced for the requesting client, the other end user, and/or the
20 financial institution. The document retrieval system incorporated at the bank and the method for obtaining electronically-stored financial documents from the on-site storage

system is now completed.

Continuing with the subject example, if the record date of the financial document is later than one year before the current date, the automated retrieval of the financial document is outsourced to the third party entity. To begin, a separate file is automatically generated at the bank by the input of the identification data into the secondary interface. Referring specifically to Figure 4, the routing codes direct the request created on the separate file to be routed separately to the outsourced third party entity. In the preferred embodiment of the subject invention, additional user ID's are created to allow only selected users into the secondary interface. The identification data stored in the separate file and the routing codes are downloaded to the off-site storage system for retrieval of the requested financial documents by the outsourced downloading terminal 18. Preferably, the identification data and routing codes are grouped into batches of common requests for optimum retrieval of the requested financial document by the outsourced third party entity at the off-site storage system. The downloading step may occur at any suitable predetermined interval. Preferably, the downloading will occur three times a day. The downloaded documents are known in the industry as a basket of requests.

The subject method further includes the step of creating a back-up file of the downloaded identification data and routing codes in the off-site storage system. The back-up file acts as an emergency information source in case the mainframe computer 12 at the financial institution has a catastrophic failure. In addition, the outsourced third party entity is in direct connection with the mainframe computer 12 of the bank wherein the

outsourced third party entity may produce a backup directory of each database file. This database backup is an additional safe guard for the financial institution.

The downloaded identification data and routing codes are then categorized for processing in the off-site storage system. The research automation system categorizes
5 this information in a like fashion as discussed above. In fact, the outsourced third party entity uses the same computer software package as the financial institution such that the flow of information is optimum and not interrupted. As discussed above, the subject example request is for a paid check. Hence, the request will be categorized into the image control system and a sequence number will be determined by the sequencing terminal 20.
10 Also, a status to update the progress of the requested financial document is provided to the financial institution.

After the request is categorized, the request, specifically the inputted identification data, is verified for completeness and accuracy. If the request is not complete or accurate, then additional data is retrieved. In a similar fashion as above, the additional data is
15 retrieved by using the sequence number retrieval system and/or the all items research system. As appreciated, the outsourced third party entity may retrieve this information from the mainframe computer 12, via its direct line, or from its own backup database files. Once the request is complete and accurate, the image reference number can be determined. Again, as above, the reference number is determined by the image control
20 system.

The requested image is then retrieved. More specifically, the requested financial

document is electronically located in the off-site storage system. Additionally, the requested financial document is also reproduced after the document is electronically located in the off-site storage system by the outsourced document terminal 22. In other words, a copy of the digitized document (the check) is created. A status file is then
5 created for the completed transaction. Also, a status of the request is sent to the financial institution wherein the institution may update their records. The status updates, as well as the information connections, create a two way information exchange between the outsourced third party entity and the bank.

The photocopy of the check is then distributed or digitally transferred to the
10 requesting client, the financial institution, or other end users of the financial institution. In the preferred embodiment of the subject invention, the photocopy of the request is distributed to the requesting client, etc. based on the routing codes. That is, in addition to directing the request to be separately routed to the outsourced third party entity, the routing codes also indicate an appropriate distribution for the request client or other end
15 user. The request is now completed.

A special circumstance occurs when the record date of one portion of the client's request is earlier than or equal to one year before the current date, and when the record date of another portion of the client's request is later than one year before the current date. These types of requests are known in the industry as spanned requests. One solution is to
20 incorporate an additional interlace utilized when the employee of the bank is utilizing the computer terminal 11 and comparing the specific document parameter of the requested

financial document to the predetermined parameter to determine if the specific document parameter is greater than, less than, or equal to the predetermined parameter. If the request is a spanned request, then the request will be split into two separate requests which can be handled simultaneously. A special notation would be put onto the requests such that they
5 may be put back together before distributing the documents to the client or other end user. Another solution simply notifies the inputting employee that two requests should be entered separately. A third solution sends the request to the back office production at the bank wherein the back office employees notify the outsourced third party entity by a separate request to retrieve the requested financial documents.

10 The invention has been described in an illustrative manner, and it is to be understood that the terminology which has been used is intended to be in the nature of words of description rather than of limitation. Obviously, many modifications and variations of the present invention are possible in light of the above teachings. It is, therefore, to be understood that within the scope of the appended claims, wherein
15 reference numerals are merely for convenience and are not to be in any way limiting, the invention may be practiced otherwise than as specifically described.

Marked-Up Substitute Specification

ABSTRACT

~~A method for a bank to obtain an electronically stored financial document is disclosed. The financial document includes a specific document parameter, such as a record date. The bank maintains the financial document in an off-site storage system when the record date is later than a pre-selected date and in an on-site storage system when the record date is earlier than or equal to the pre-selected date. The off-site storage system is different remotely located from the on-site storage system. The bank receives and inputs a request for the financial document from a client and compares the record date to the pre-selected date to determine if the record date is later than, earlier than, or equal to the pre-selected date. In processing the request, the bank utilizes a computer terminal, connected to the off-site and on-site storage systems through a processing unit, to access one of the storage systems in response to the comparison of the record date to the pre-selected date. After accessing the appropriate storage system, the bank inputs data into the computer terminal to identify the requested financial document and then retrieves the requested financial document. The bank then reproduces the requested financial document and distributes the requested financial document to the requesting client, or some other end-user of the bank.~~

An electronically stored financial document is either maintained in a first storage system when a parameter associated with the document is greater than a pre-selected parameter or in a second storage system when the parameter associated with the document is less than or equal to the pre-selected parameter. A request for a stored financial document is received and the requested financial document parameter is compared to the pre-selected financial document parameter to determine if the electronically stored financial document's parameter is more than, less than, or equal to the pre-selected parameter. In processing the request, a processing unit compares and electronically accesses one of the storage systems in response to the comparison of the pre-selected parameter to the electronically stored financial document's parameters. After accessing the appropriate storage system, the requested electronically stored financial document can be reproduced, and/or distributed.

REMOTE DOCUMENT RETRIEVAL AND STORAGE SYSTEM

RELATED APPLICATIONS

5 This patent application is a continuation of U.S. Patent Application Serial No. 13/840,892 filed on March 15, 2013 now _____ which is a continuation of U.S. Patent Application Serial No. 13/272,936 filed on October 13, 2011 now abandoned which is continuation of U.S. Patent Application Serial No. 12/902,973 filed on October 12, 2010 now abandoned, which is a continuation of U.S. Patent Application Serial No. 12/489,087 filed on June 22, 2009, now U.S. Patent No. 7,836,067, which is a continuation of U.S. Patent Application Serial No. 11/202,790 filed on August 12, 2005, now U.S. Patent No. 7,552,118, which is a continuation of U.S. Patent Application Serial No. 10/104,541 filed on March 22, 2002, now U.S. Patent No. 6,963,866, which is a continuation of U.S. Patent Application Serial No. 09/548,490 filed on April 13, 2000, now U.S. Patent No. 6,446,072, which in turn claims priority to and all the advantages of United States Provisional Patent Application Serial No. 60/129,021, which was filed on April 13, 1999.

BACKGROUND OF THE INVENTION

1) TECHNICAL FIELD

20 The subject invention relates to a method for a financial institution to obtain electronically-stored financial documents from an off-site storage system remotely-located from an on-site storage system.

2) DESCRIPTION OF THE PRIOR ART

5 Methods for obtaining electronically-stored financial documents are generally known in the art. Financial institutions, such as banks and credit unions, utilize such methods to rapidly and efficiently obtain financial documents for distribution to clients upon request. Such financial documents include paid checks, account statements, and other related documents. These financial documents are typically stored on microfiche,
10 microfilm, digitally, or by some other electronic storage means. Further, these financial documents are typically electronically-stored in an on-site storage system located at the financial institution or in an off-site storage system. Electronic storage of these financial documents permits financial institutions to eliminate storage of paper or "hard" copies of these documents. The electronic storage of these documents also provides a means of
15 retrieving the information from the on-site and off-site storage systems.

 Once the document is stored, the client may request an image of a particular stored document. Client requests are made to replace lost or stolen documents, for tax purposes, for proof of financial transactions, for legal disputes, and other similar matters. The client's request is inputted into a computer terminal at the financial institution. More
20 specifically, conventional methods for obtaining an electronically-stored financial document enable an employee of the financial institution, such as a bank teller, to input

the request into an interface incorporated into the computer terminal. The interface is inter-linked with the on-site storage system. Typically, all requests for a particular period are grouped together and subsequently downloaded for retrieval of the requested image by the financial institution. The financial institution retrieves the image, e.g. a photocopy of
5 the check, and then distributes the photocopy to the client via facsimile, mail or hand delivery. The storing, downloading, and retrieving of the financial document, including the reproduction and the distribution of the document, are known in the industry as back office production. Back office production for financial institutions is particularly resource intensive, time consuming, and expensive. Also, back office production
10 becomes increasingly expensive if the client requests a particularly old financial document because older financial documents frequently require more resources and time to locate and retrieve.

The majority of financial institutions electronically store financial documents only in an on-site storage system and not in an off-site storage system. Consequently, these
15 financial institutions are unable to outsource the responsibilities for the back office production to third party entities to alleviate the expenses and resources associated with the back office production. These financial institutions realize a significant financial burden since the back office production is concentrated strictly at the financial institution.

Other financial institutions do electronically store financial documents in on-site and
20 off-site storage systems. However, the methods utilized by these financial institutions to access the financial documents stored in the off-site storage system are deficient in that the

interface utilized in such methods is only inter-linked with the on-site storage system. That is, there is no interface independently inter-linked with the off-site storage system. As a result, the financial documents stored in the off-site storage system can not be efficiently accessed. These financial institutions are still responsible for retrieving the requested
5 financial documents through their back office production and their expenses remain high. One such method of retrieving documents from on-site and off-sited storage systems is disclosed in United States Patent No. 5,784,610 to Copeland, III et al.

Due to the inefficiencies identified in the conventional methods used by financial institutions to obtain financial documents, it is desirable to implement a method for a
10 financial institution to obtain electronically-stored financial documents from both on-site and off-site storage systems that reduces, if not eliminates, the back office production of the financial institution by providing a direct interface inter-linked with the off-site storage system. With such an interface, the responsibility for retrieving financial documents from the off-site storage can be outsourced to third party entities while still
15 providing the financial institution with efficient access to any financial documents electronically-stored in the off-site storage system.

SUMMARY OF THE INVENTION AND ADVANTAGES

A method for a financial institution to obtain electronically-stored financial
20 documents having a specific document parameter is disclosed. The specific document parameter is typically a particular numerical sequence, such as a record date of the

financial document. The method of the subject invention enables the financial institution to obtain the financial documents from a first or an off-site storage system. The first or off-site storage system is different from a second or an on-site storage system and is preferably remotely-located from the second or on-site storage system. In

5 one embodiment, the financial documents of the financial institution are maintained in the first or off-site storage system when the specific document parameter of the financial document is greater than a predetermined parameter. The financial documents that are less than or equal to the predetermined parameter are maintained in the second or on-site storage system. In another embodiment, the specific document
10 parameter of the financial document that is less than or equal to the predetermined parameter is maintained in the first or off-site storage system and the financial document that is greater than the predetermined parameter is maintained in the second or on-site storage system.

When the financial institution receives a request for a financial document, the
15 financial institution compares the specific document parameter of the requested financial document to the predetermined parameter to determine if the specific document parameter is greater than, less than, or equal to the predetermined parameter. A computer terminal located at the financial institution is connected to both the off-site and on-site storage systems through a processing unit. The processing unit is
20 utilized to, at least partially, automatically access one of the storage systems in response to the comparison of the specific document parameter to the predetermined parameter.

For instance, if it is determined that the specific document parameter is less than or equal to the predetermined document parameter, then the processing unit accesses the second or on-site storage system. On the other hand, if it is determined that the specific document parameter of the financial document is greater than the

5 predetermined parameter, then the processing unit accesses the first or off-site storage system. As stated below, the computer terminal may be used to feed a request into the processing unit.

10 After the requested financial document is accessed, the requested document is then retrieved in order to reproduce the financial document, and distribute the financial document to an end user of the financial

20 institution.

The subject invention therefore provides a method that enables financial

institutions to obtain electronically-stored financial documents from an on-site and off-site storage systems. As such, the financial institution can selectively store financial documents in

5 either an on-site storage system or the off-site storage system, and the responsibility for the financial documents in the on-site or off-site storage systems can be outsourced to a third party entity. Further, the documents can be stored in different fixed mediums, such as microfiche, microfilm, digitally, electronically, etc., and can be stored in different geographical locations. Therefore, the back office production of the financial
10 institution associated with the retrieval and distribution of financial documents stored in the on-site or off-site storage systems is strategically reduced or even completely eliminated.

BRIEF DESCRIPTION OF THE DRAWINGS

Other advantages of the present invention will be readily appreciated as the same
15 becomes better understood by reference to the following detailed description when considered in connection with the accompanying drawings wherein:

Figure 1 is a flow diagram schematically detailing an on-site storage system, and an off-site storage system in accordance with the subject invention;

Figure 2 is a block diagram generally representing a method for a financial
20 institution to obtain electronically-stored financial documents from the on-site and off-site storage systems;

Figure 3 is a block diagram completing the method of obtaining electronically-stored financial documents from the on-site storage system; and

Figure 4 is a block diagram completing the method of obtaining electronically-stored financial documents from the off-site storage system.

5

DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENT

Referring to the Figures, wherein like numerals indicate like or corresponding parts throughout the several views, a method for a financial institution to obtain an electronically-stored financial document is schematically shown at 10 in Figure 1. The method introduced in the subject invention enables the financial institution to obtain the financial document from one of a first or an off-site storage system and a second or an on-site storage system with the storage systems being different from each other. Preferably, the on-site storage system is located at the financial institution and the off-site storage system is located at a remote location distant from the financial institution. This allows the financial institution to 'outsource' the responsibilities associated with obtaining the financial document.

Methods for financial institutions to obtain electronically-stored documents are frequently used by such entities as banks, credit unions, and other financially-oriented institutions. For illustrative purposes only, the description of the subject invention is discussed with reference to banks. However, as appreciated by those skilled in the art,

other businesses, such as insurance companies, may also utilize similar methods and incorporate the aspects of the subject invention.

Methods for banks to obtain electronically-stored financial documents are generally used by banks to rapidly and efficiently obtain financial documents for
5 distribution to clients upon request. As described above, the financial documents for banks are usually paid checks, checking statements, and other related financial documents, and these documents include at least one specific document parameter. As appreciated by those skilled in the art, it is not the financial document (e.g. the paid check) itself that is electronically-stored. Rather, it is data included on the document such
10 as a sequence number that is electronically stored to make up the financial document. The specific document parameter is preferably a particular numerical sequence. As appreciated, the specific document parameter of the financial document can include, but is not limited to, a record date or age of the document, a series number, or some other document identifying number of the financial document. More specifically, in the
15 preferred embodiment of the subject invention, the particular numerical sequence of the financial document is the record date of the financial document. That is, the date that the particular financial document was created or posted.

The financial documents are typically stored on microfiche, microfilm, digitally, or by some other electronic storage means. As appreciated, the electronic storage of the
20 financial documents is frequently created by taking an electronic photo image of the document and storing the photo image in a computer system. One such digital electronic

storage device is sold by Kodak under the name of *IMAGELINK*[™] Digital Workstation (IDW). Electronic storage of these financial documents permits banks to eliminate storage of paper or "hard" copies of these documents. The electronic storage of these documents also provides an efficient means of retrieving the information from the on-site and off-site
5 storage systems. This will be discussed further herein below.

As described above, the financial documents are electronically-stored in either the on-site storage system located at the bank or in the off-site storage system remotely located from the on-site storage system. More specifically, the subject invention includes the step of maintaining the financial documents in the off-site storage system when the
10 specific document parameter of the financial document is greater than a predetermined parameter. Financial documents are maintained in the on-site storage system when the specific document parameter of the financial document is less than or equal to the predetermined parameter. As appreciated, the document parameter of the financial documents stored in the off-site storage system may be greater than or equal to the
15 predetermined parameter with the on-site storage system having documents only less than the predetermined parameter.

Similar to the specific document parameter of the financial document, the predetermined parameter is also a numerical value. The predetermined parameter is specifically a numerical value predetermined by the bank. For instance, if the specific
20 document parameter is a series number of a paid check and the series number is greater

than the predetermined parameter which, in this case, would be an arbitrarily selected base series number, then the paid check would be stored in the off-site storage system.

In the preferred embodiment of the subject invention, the predetermined numerical value is a date pre-selected by the bank. For instance, the bank may pre-select a date that
5 is one year before a current date-the current date being the actual date that the client requests the financial document. Of course, the bank may pre-select a date that is some other time period before a current date (e.g. two or three years) without varying from the scope of the subject invention. As such, if the record date of the particular financial document is older than one year, then the particular financial document is maintained in
10 the off-site storage system. If the record date of the particular financial document is earlier than or equal to one year, then the particular financial document is maintained in the on-site storage system. As discussed above, the document having record dates equal to the one year may be stored in the off-site or on-site storage systems.

Once the financial document is maintained in the appropriate storage system, the
15 bank is capable of receiving a request for the financial document from the client. In reality, the client is requesting an image of the stored financial document. As appreciated, clients request the image for various reasons. As discussed above, requests are typically made for replacing lost or stolen financial documents, for tax purposes, for proof of financial transactions, for legal disputes, and other similar matters. Ultimately,
20 the bank retrieves the image, reproduces the image, and distributes the reproduced image to the requesting client of the bank.

Referring now to Figure 1, the method for banks to obtain electronically-stored financial documents is discussed in detail in accordance with a general scope of the subject invention. Initially, the requesting client requests a particular financial document, such as a paid check. The client is typically a customer of the bank or other financial institution. The client's request is inputted into a computer terminal 11 at the financial institution. The computer terminal 11 will be discussed in more detail hereinbelow.

From the computer terminal 11, the request is fed into a processing unit 12, which is illustrated as a mainframe computer 12 at the bank. In the preferred embodiment of the subject invention, if the client requests a financial document having a record date earlier than or equal to one year before the current date, then the request, and other requests like it, are processed at the bank in the on-site storage system. That is, the requests are grouped together and downloaded to a downloading terminal 14 at the bank. The downloading may occur at particular intervals such as at the end of each day, every three hours, etc. The sequence number of each check requested is then determined. A document terminal 16 subsequently creates or reproduces the document, i.e., a photocopy of the check. The photocopy is then distributed to the client via facsimile, mail, or hand delivery.

It is known in the art that the majority of requests for financial documents are requests for documents which were created in the most recent year. That is, if the pre-selected date is one year before the current date, as in the preferred embodiment, then the majority of requests are seeking financial documents having a record date earlier than or

equal to the pre-selected date. The remaining document requests relate to financial documents that are older than one year. Since, as described in the Background of the Invention, retrieval of financial documents that are older than one year is particularly expensive, the preferred embodiment of the subject invention outsources all of the document requests which relate to documents having a record date later than one year before the current date. As appreciated, the particular time frame which is outsourced is not a critical feature of the subject invention and may be adjusted to meet the needs of any particular financial institution. In fact, all of the document requests, including the most recent, may be outsourced using the outsourcing procedure of the subject invention.

10 In the preferred embodiment, if the client requests a financial document having a record date later than one year before the current date, then the request, and others like it, are grouped together and downloaded from the mainframe computer 12 to an outsourced downloading terminal 18. As above, the downloading may be at particular intervals as needed. The sequence number is determined by a sequencing terminal 20. The sequence number is then sent back to the outsourced downloading terminal 18. An outsourced document terminal 22 then creates or reproduces the desired document which is then distributed to either the client or the bank. As appreciated, two document retrieval operations, one for the bank to retrieve financial documents having record dates earlier than or equal to one year before the current date, and another to retrieve outsourced financial documents having record dates later than one year before the current date, preferably operate simultaneously. It is to be understood that the computer terminals and the

accompanying PC bases are illustrated highly schematically in Figure 1 and are not intended to be limiting in any manner. For instance, the schematic illustration of the outsourced document terminal 22 need not include a computer terminal and an accompanying PC base. Instead, the outsourced document terminal 22 is preferably some sort of printing device.

5 Referring to Figures 2 through 4, the method for banks to obtain electronically-stored financial documents is described in even greater detail. The request is first generated by the client. The request is then processed by the bank. The processing, retrieval and reproduction of the requested financial document is typically controlled by one interlinked computer software program. One such computer software program is a software
10 program called Antinori Software Incorporated or ASI which is sold under the name of *INNOVASION*TM by Carreker-Antinori of Dallas, Texas. However, other frequently used software programs include *PEGA*TM and *Sterling*TM. Any of these computer software systems can provide the necessary means for implementing the discussed procedures.

The processing of the request is completed by a customer service tracking system
15 and the computer terminal 11. The customer service tracking system assists the financial institution in receiving the request. More specifically, the customer service tracking system gives branches, customer service, and other bank departments the capability to enter, log, track, route and monitor the status of all requests for financial documents. The customer service tracking system also provides the capability to enter, log, track, route and
20 monitor the status of customer complaints and other customer service related items.

In accordance with one contemplated embodiment of the invention, a bank

employee, such as a bank teller first determines a status of the requested document. More specifically, the employee compares the specific document parameter of the requested financial document to the predetermined parameter to determine if the specific document parameter is greater than, less than, or equal to the predetermined parameter. If the
5 specific document parameter is a particular numerical sequence and the predetermined parameter is a predetermined numerical value, then the employee compares the particular numerical sequence of the financial document to the predetermined numerical value to determine if the particular numerical sequence is greater than, less than, or equal to the predetermined numerical value. Further, if as in the preferred embodiment, the particular
10 numerical sequence is a record date of the financial document, and the predetermined numerical value is a pre-selected date, then the employee compares the record date of the financial document to the pre-selected date to determine if the record date is later than, earlier than, or equal to the pre-selected date.

The customer service tracking system enables a bank employee, such as a bank
15 teller, to submit the request. More specifically, the employee utilizes the computer terminal 11 located at the bank and connected to both the off-site and on-site storage systems to access one of the storage systems in response to the comparison of the specific document parameter of the requested financial document to the predetermined parameter. For instance, when the particular numerical sequence of the financial document is greater than
20 the predetermined numerical value, the employee preferably utilizes the computer terminal 11 to access the off-site storage system, and when the particular numerical

sequence of the financial document is less than or equal to the predetermined numerical value, the employee preferably utilizes the computer terminal 11 to access the on-site storage system. As discussed above, the documents have a numerical sequence equal to the predetermined numerical value may be stored in either the off-site or on-site storage systems.

After the computer terminal 11 is utilized to access the desired storage system, the employee manually inputs identification data of the requested financial document into the computer terminal 11. More specifically, when the particular numerical sequence of the financial document is less than or equal to the predetermined numerical value, the employee inputs identification data into a primary interface and selects the requested document. Also, the primary interface preferably provides an option for the employee to select among several different output formats. The primary interface is inter-linked with the on-site storage system. In the preferred embodiment of the subject invention, the primary interface appears as follows and includes the identification data detailed below:

Clean Substitute Specification

Account Number:	Prod Type:	
Account Name:	Customer Code:	
Address:		
City:	State:	Zip Code:
Home Phone: ()	Work Phone: ()	
Fax: ()		
Service Code:		
For Items Posted Within A Year		
Copy of Statement Only	Savings Items	
Copy of Check/Deposit Ticket	Misc (G/L, Loans, Teller, Etc)	
Check(s)/Deposit(s)<30 Items	Cash Letter Reconstruction	
Statements and<30 Items	Lockbox	
Statements and>30 Items	Legal Statement Only	
Deposit Reconstruction	Legal Statement and Items	
Regardless of Posting Date		
Missing Transactions	Returned Items	
Online (Backdated/Unpast)	Encoding Error/Wrong Account	
EXITFUNCTION		

Alternatively, when the particular numerical sequence of the financial document is greater than the predetermined numerical value, the employee selects an exit function at the primary interface. The exit function distinguishes that the request is to be sent to an outsourcing third party entity. Upon selection of the exit function at the primary interface, a secondary interface, inter-linked with the exit function, is initiated. The secondary interface is inter-linked with the off-site storage system. The employee inputs identification data into the secondary interface and selects the requested document. Also,

the secondary interface preferably provides an option for the employee to select among several different output formats. Preferably, routing, or service codes will be generated automatically upon the initiation of the secondary interface and the inputting of the identification data into the secondary interface. The routing codes enable the bank to
5 recognize that the request is being sent to the outsourced third party entity. Furthermore, the routing codes are configured to automatically forward the inputted identification data to the off-site storage system. The inputted identification data and the routing codes are forwarded into the mainframe computer 12 introduced above for temporary storage before transfer to the off-site storage system. This temporary storage also serves to defend
10 against unexpected power outages, computer malfunctions, and the like. In the preferred embodiment of the subject invention, the secondary interface appears as follows and includes the identification data detailed below:

Clean Substitute Specification

Account Number:	Prod Type:	
Account Name:	Customer Code:	
Address:		
City:	State:	Zip Code:
Home Phone: ()	Work Phone: ()	
Fax: ()		
Service Code:		
For Items Posted Prior to a Year		
Copy of Statement Only	Savings Items	
Copy of Check/Deposit Ticket	Misc (G/L, Loans, Teller, Etc)	
Check(s)/Deposit(s)<30 Items	Cash Letter Reconstruction	
Statements and <30 Items	Lockbox	
Statements and >30 Items	Legal Statement Only	
Deposit Reconstruction	Legal Statement and Items	

Once the bank employee has inputted the necessary identification data into either the primary or secondary interlace, then retrieval of the financial document can continue. Specifically, the requested financial document is retrieved as defined by the inputted

5 identification data. Two separate document retrieval procedures are discussed hereinbelow.

One document retrieval procedure is for the financial documents having a record date earlier than or equal to the pre-selected date-one year before the current date in this example. The other document retrieval procedure is for the financial documents having a

10 record date later than the pre-selected date. As discussed above, the one year timing selected for the pre-selected date is simply shown as an example and any suitable time frame may be utilized. In fact, even all financial document retrievals may be outsourced to

the third party entity. As also discussed above, the two separate document retrieval procedures will typically operate simultaneously.

With reference to the subject example, if the record date of the financial document is earlier than or equal to one year before the current date, the remaining steps occur at the bank. As discussed above, these steps are known as the back office production of the bank. The request is first categorized by a research automation system. The research automation system automates the entire workflow of a bank's research and photocopy departments by sending requests to the appropriate sequence for processing. The downloading terminal 14 serves to perform the research automation system's tasks.

Photocopy requests are routed to an image control system, statement requests are sent to a document retrieval system, and requests for financial adjustments are routed to an adjustment system. The document terminal 16 serves to perform these tasks. In the illustrated embodiment of the subject invention, the sample document request is for a paid check. Hence, the categorized sequence will be the image control system which handles photocopy requests.

Referring now to Figure 3, after the request is categorized, the request is verified for completeness and accuracy. If the request is not complete then additional data is retrieved. The additional data is retrieved by using a sequence number retrieval system and/or an all items research system. Once the request is complete and accurate, then the image reference number can be determined. That is, once the request is complete and accurate, then the requested financial document can be electronically located in the on-site storage system.

The reference number may be a routing, sequence, or any other type of indicator. The reference number is determined by the image control system. The image control system is an image retrieval and routing management system which works in conjunction with Kodak's *IMAGELINK*TM Digital Workstations (IDW). Specifically, the image control
5 system first connects to a network node. The network node is any type of storage device as is known in the art. Preferably a Kodak network node is used. The network node drives the IDW to find the location of the image by using the reference number. Specifically, the employee is prompted to verify that the correct media is loaded in the IDW such that the IDW can locate the image. The reference number for the document is known and the
10 document image is now verified and located.

The requested image can now be retrieved and reproduced. In other words a copy of the digitized document (the check) is created. The copy may be created by manually pulling the microfilm, microfiche, or the like and photocopying the document. The copy may also be made by printing the document from a digitized record. The photocopy of
15 the check is then distributed to the requesting client or other end user of the financial institution. Other end users of the financial institution include, but are not limited to, other financial institutions and federal and state governments. Additional information such as a photocopy report, a statement of charges, a research report and/or a daily status report may also be produced for the requesting client, the other end user, and/or the
20 financial institution. The document retrieval system incorporated at the bank and the method for obtaining electronically-stored financial documents from the on-site storage

system is now completed.

Continuing with the subject example, if the record date of the financial document is later than one year before the current date, the automated retrieval of the financial document is outsourced to the third party entity. To begin, a separate file is automatically generated at
5 the bank by the input of the identification data into the secondary interface. Referring specifically to Figure 4, the routing codes direct the request created on the separate file to be routed separately to the outsourced third party entity. In the preferred embodiment of the subject invention, additional user ID's are created to allow only selected users into the secondary interface. The identification data stored in the separate file and the routing codes
10 are downloaded to the off-site storage system for retrieval of the requested financial documents by the outsourced downloading terminal 18. Preferably, the identification data and routing codes are grouped into batches of common requests for optimum retrieval of the requested financial document by the outsourced third party entity at the off-site storage system. The downloading step may occur at any suitable predetermined interval.
15 Preferably, the downloading will occur three times a day. The downloaded documents are known in the industry as a basket of requests.

The subject method further includes the step of creating a back-up file of the downloaded identification data and routing codes in the off-site storage system. The back-up file acts as an emergency information source in case the mainframe computer 12 at
20 the financial institution has a catastrophic failure. In addition, the outsourced third party entity is in direct connection with the mainframe computer 12 of the bank wherein the

outsourced third party entity may produce a backup directory of each database file. This database backup is an additional safe guard for the financial institution.

The downloaded identification data and routing codes are then categorized for processing in the off-site storage system. The research automation system categorizes
5 this information in a like fashion as discussed above. In fact, the outsourced third party entity uses the same computer software package as the financial institution such that the flow of information is optimum and not interrupted. As discussed above, the subject example request is for a paid check. Hence, the request will be categorized into the image control system and a sequence number will be determined by the sequencing terminal 20.
10 Also, a status to update the progress of the requested financial document is provided to the financial institution.

After the request is categorized, the request, specifically the inputted identification data, is verified for completeness and accuracy. If the request is not complete or accurate, then additional data is retrieved. In a similar fashion as above, the additional data is
15 retrieved by using the sequence number retrieval system and/or the all items research system. As appreciated, the outsourced third party entity may retrieve this information from the mainframe computer 12, via its direct line, or from its own backup database files. Once the request is complete and accurate, the image reference number can be determined. Again, as above, the reference number is determined by the image control
20 system.

The requested image is then retrieved. More specifically, the requested financial

document is electronically located in the off-site storage system. Additionally, the requested financial document is also reproduced after the document is electronically located in the off-site storage system by the outsourced document terminal 22. In other words, a copy of the digitized document (the check) is created. A status file is then
5 created for the completed transaction. Also, a status of the request is sent to the financial institution wherein the institution may update their records. The status updates, as well as the information connections, create a two way information exchange between the outsourced third party entity and the bank.

The photocopy of the check is then distributed or digitally transferred to the
10 requesting client, the financial institution, or other end users of the financial institution. In the preferred embodiment of the subject invention, the photocopy of the request is distributed to the requesting client, etc. based on the routing codes. That is, in addition to directing the request to be separately routed to the outsourced third party entity, the routing codes also indicate an appropriate distribution for the request client or other end
15 user. The request is now completed.

A special circumstance occurs when the record date of one portion of the client's request is earlier than or equal to one year before the current date, and when the record date of another portion of the client's request is later than one year before the current date. These types of requests are known in the industry as spanned requests. One solution is to
20 incorporate an additional interlace utilized when the employee of the bank is utilizing the computer terminal 11 and comparing the specific document parameter of the requested

financial document to the predetermined parameter to determine if the specific document parameter is greater than, less than, or equal to the predetermined parameter. If the request is a spanned request, then the request will be split into two separate requests which can be handled simultaneously. A special notation would be put onto the requests such that they
5 may be put back together before distributing the documents to the client or other end user. Another solution simply notifies the inputting employee that two requests should be entered separately. A third solution sends the request to the back office production at the bank wherein the back office employees notify the outsourced third party entity by a separate request to retrieve the requested financial documents.

10 The invention has been described in an illustrative manner, and it is to be understood that the terminology which has been used is intended to be in the nature of words of description rather than of limitation. Obviously, many modifications and variations of the present invention are possible in light of the above teachings. It is, therefore, to be understood that within the scope of the appended claims, wherein
15 reference numerals are merely for convenience and are not to be in any way limiting, the invention may be practiced otherwise than as specifically described.

Clean Substitute Specification

ABSTRACT

An electronically stored financial document is either maintained in a first storage system when a parameter associated with the document is greater than a pre-selected parameter or in a second storage system when the parameter associated with the document is less than or equal to the pre-selected parameter. A request for a stored financial document is received and the requested financial document parameter is compared to the pre-selected financial document parameter to determine if the electronically stored financial document's parameter is more than, less than, or equal to the pre-selected parameter. In processing the request, a processing unit compares and electronically accesses one of the storage systems in response to the comparison of the pre-selected parameter to the electronically stored financial document's parameters. After accessing the appropriate storage system, the requested electronically stored financial document can be reproduced, and/or distributed.

Electronic Patent Application Fee Transmittal

Application Number:				
Filing Date:				
Title of Invention:	REMOTE DOCUMENT RETRIEVAL AND STORAGE SYSTEM			
First Named Inventor/Applicant Name:	Michael Schulze			
Filer:	Michael Schulze			
Attorney Docket Number:				
Filed as Large Entity				
Filing Fees for Utility under 35 USC 111(a)				
Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Basic Filing:				
Utility application filing	1011	1	280	280
Utility Search Fee	1111	1	600	600
Utility Examination Fee	1311	1	720	720
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				
Miscellaneous:				
Total in USD (\$)				1600

Electronic Acknowledgement Receipt

EFS ID:	23531195
Application Number:	14857854
International Application Number:	
Confirmation Number:	2781
Title of Invention:	REMOTE DOCUMENT RETRIEVAL AND STORAGE SYSTEM
First Named Inventor/Applicant Name:	Michael Schulze
Customer Number:	113243
Filer:	Michael Schulze
Filer Authorized By:	
Attorney Docket Number:	
Receipt Date:	18-SEP-2015
Filing Date:	
Time Stamp:	08:32:07
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	Credit Card
Payment was successfully received in RAM	\$ 1600
RAM confirmation Number	7236
Deposit Account	
Authorized User	

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1	Oath or Declaration filed	InventorsOath.pdf	3945477	no	4
			09fb5522424e80fb73bb47104c84488694bba256		
Warnings:					
Information:					
2	Abstract	originallyfiledabstract.pdf	34665	no	1
			82da5c772d1ea1a77dad6fb06655891ebaa88492		
Warnings:					
Information:					
3	Claims	originallyfiledclaims.pdf	155080	no	5
			13533198617da05a01c26b680b7914e42f945fc5		
Warnings:					
Information:					
4	Specification	originallyfiledspecification.pdf	845880	no	23
			550b2c3cfcdb229ca076db005da8d2093a8ae5f5		
Warnings:					
Information:					
5	Application Data Sheet	completedadstofileseptember.pdf	1217972	no	5
			5b09f426196dfc449fdd7a6e1f7c545bee50444		
Warnings:					
Information:					
6	Drawings-only black and white line drawings	originallyfileddrawings.pdf	123318	no	4
			f490dfbfa3ba968bb1d60dc1d4b4045367676e22		
Warnings:					
Information:					
7	Preliminary Amendment	Preliminaryamendment.pdf	6840726	no	12
			fb43a5f9fa980aa1f1c014b4c3f4b0b4d10e86e4		
Warnings:					
Information:					

8	Specification	Markedupspec.pdf	15270667	no	26
			88fd7614c9dd8d7974a1e9819b2501c23f829e0d		
Warnings:					
Information:					
9	Specification	Cleanspec.pdf	14431412	no	26
			eeef37b98348dfcf6bef393185e02282c63d120		
Warnings:					
Information:					
10	Fee Worksheet (SB06)	fee-info.pdf	34693	no	2
			b2b47ef588f0f52fa531e6bdd7f1edd3434b6608		
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Total Files Size (in bytes):			42899890		
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**DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN
APPLICATION DATA SHEET (37 CFR 1.76)**

**Title of
Invention**

REMOTE DOCUMENT RETRIEVAL AND STORAGE SYSTEM

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:

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LEGAL NAME OF INVENTOR

Inventor:

Michael D. Schulze

Date (Optional):

9-17-15

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)**

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Invention

REMOTE DOCUMENT RETRIEVAL AND STORAGE SYSTEM

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.

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LEGAL NAME OF INVENTOR

Inventor: Richard J. Gagnon

Date (Optional):

9/17/2015

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.

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

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

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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.
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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.

ABSTRACT OF THE DISCLOSURE

A method for a bank to obtain an electronically-stored financial document is disclosed.

The financial document includes a specific document parameter, such as a record date. The

5 bank maintains the financial document in an off-site storage system when the record date is later than a pre-selected date and in an on-site storage system when the record date is earlier than or equal to the pre-selected date. The off-site storage system is remotely-located from the on-site storage system. The bank receives a request for the financial document from a client and compares the record date to the pre-selected date to determine if the record date is later
10 than, earlier than, or equal to the pre-selected date. In processing the request, the bank utilizes a computer terminal connected to the off-site and on-site storage systems to access one of the storage systems in response to the comparison of the record date to the pre-selected date. After accessing the appropriate storage system, the bank inputs data into the computer terminal to identify the requested financial document and then retrieves the requested financial
15 document. The bank then reproduces the requested financial document and distributes the requested financial document to the requesting client, or some other end user of the bank.

CLAIMS

What is claimed is:

1. A method for a financial institution to obtain an electronically-stored financial document from an off-site storage system remotely-located from an on-site storage system wherein the financial document includes at least one specific document parameter, said
5 method comprising the steps of:

maintaining the financial document in the off-site storage system when the specific document parameter of the financial document is greater than a predetermined parameter;

maintaining the financial document in the on-site storage system when the specific
10 document parameter of the financial document is less than or equal to the predetermined parameter;

receiving a request for the financial document at the financial institution;

comparing the specific document parameter of the requested financial document to the predetermined parameter to determine if the specific document parameter is greater than, less
15 than, or equal to the predetermined parameter;

utilizing a computer terminal located at the financial institution and connected to the off-site and on-site storage systems to access one of the storage systems in response to the comparison of the specific document parameter of the requested financial document to the predetermined parameter;

20 inputting identification data of the requested financial document into the computer

terminal after the desired storage system is accessed; and

retrieving the requested financial document as defined by the inputted identification data.

5 2. A method as set forth in claim 1 wherein the specific document parameter of the financial document is a particular numerical sequence and the predetermined parameter is a predetermined numerical value.

 3. A method as set forth in claim 2 wherein the step of comparing the specific document parameter to the predetermined parameter is further defined by comparing the
10 particular numerical sequence of the financial document to the predetermined numerical value to determine if the particular numerical sequence is greater than, less than, or equal to the predetermined numerical value.

 4. A method as set forth in claim 2 wherein the particular numerical sequence of the financial document is a record date of the financial document and the predetermined
15 numerical value is a pre-selected date.

 5. A method as set forth in claim 4 wherein the step of comparing the specific document parameter to the predetermined parameter is further defined by comparing the record date of the financial document to the pre-selected date to determined if the record date is later than, earlier than, or equal to the pre-selected date.

20 6. A method as set forth in claim 2 wherein the step of utilizing the computer

terminal to access one of the storage systems is further defined by accessing the off-site storage system when the particular numerical sequence is greater than the predetermined numerical value and accessing the on-site storage system when the particular numerical sequence is less than or equal to the predetermined numerical value.

5

7. A method as set forth in claim 6 wherein the step of inputting identification data of the requested financial document into the computer terminal is further defined by inputting identification data into a primary interface inter-linked with the on-site storage system when the particular numerical sequence of the financial document is less than or equal
10 to the predetermined numerical value.

8. A method as set forth in claim 7 wherein the step of inputting identification data of the requested financial document into the computer terminal is further defined by selecting an exit function at the primary interface when the particular numerical sequence of the financial document is greater than the predetermined numerical value.

15

9. A method as set forth in claim 8 wherein the selection of the exit function is further defined by initiating a secondary interface inter-linked with the off-site storage system and inputting identification data into the secondary interface.

10. A method as set forth in claim 9 wherein the step of inputting identification data into the secondary interface is further defined by selecting a desired output format for the
20 requested financial document.

11. A method as set forth in claim 9 further including the step of automatically generating routing codes upon the initiation of the secondary interface and the inputting of the identification data into the secondary interface.

12. A method as set forth in claim 11 further including the step of inter-linking the
5 exit function with the secondary interface and configuring the routing codes to automatically forward the inputted identification data to the off-site storage system.

13. A method as set forth in claim 12 further including the step of forwarding the inputted identification data and the routing codes into a mainframe computer for temporarily
10 storing the identification data and routing codes in the mainframe computer.

14. A method as set forth in claim 13 further including the step of downloading the stored identification data and routing codes to the off-site storage system for retrieval of the requested financial documents.

15. A method as set forth in claim 14 further including the step of grouping the
15 stored identification data and routing codes into batches of common requests for optimum retrieval of the requested financial document.

16. A method as set forth in claim 14 further including the step of creating a back-up file of the downloaded identification data and routing codes in the off-site storage system.

17. A method as set forth in claim 14 further including the step of categorizing the
20 downloaded identification data and routing codes for processing in the off-site storage system.

18. A method as set forth in claim 17 further including the step of providing a status of the requested financial document to update progress to the financial institution.

19. A method as set forth in claim 17 further including the step of verifying the completeness and accuracy of the inputted identification data.

5

20. A method as set forth in claim 19 wherein the step of retrieving the requested financial document is further defined by electronically locating the requested financial document in the off-site storage system.

21. A method as set forth in claim 20 wherein the step of retrieving the requested
10 financial document is further defined by reproducing the requested financial document after the requested financial document is electronically located in the off-site storage system.

22. A method as set forth in claim 21 further including the step of distributing the reproduced financial document to an end user of the financial institution based on the routing codes.

METHOD OF OBTAINING AN ELECTRONICALLY-STORED FINANCIAL DOCUMENT

RELATED APPLICATIONS

This patent application claims priority to and all advantages of United States Provisional Patent Application Serial No. 60/129,021 which was filed on April 13, 1999 and is entitled "REMOTE DOCUMENT RETRIEVAL AND STORAGE SYSTEM."

BACKGROUND OF THE INVENTION

1) TECHNICAL FIELD

The subject invention relates to a method for a financial institution to obtain electronically-stored financial documents from an off-site storage system remotely-located from an on-site storage system.

2) DESCRIPTION OF THE PRIOR ART

Methods for obtaining electronically-stored financial documents are generally known in the art. Financial institutions, such as banks and credit unions, utilize such methods to rapidly and efficiently obtain financial documents for distribution to clients upon request. Such financial documents include paid checks, account statements, and other related documents. These financial documents are typically stored on microfiche, microfilm, digitally, or by some other electronic storage means. Further, these financial documents are typically electronically-stored in an on-site storage system located at the financial institution or in an off-site storage system. Electronic storage of these financial documents permits financial institutions to eliminate storage of paper or "hard" copies of these documents. The

electronic storage of these documents also provides a means of retrieving the information from the on-site and off-site storage systems.

Once the document is stored, the client may request an image of a particular stored document. Client requests are made to replace lost or stolen documents, for tax purposes, for proof of financial transactions, for legal disputes, and other similar matters. The client's request is inputted into a computer terminal at the financial institution. More specifically, conventional methods for obtaining an electronically-stored financial document enable an employee of the financial institution, such as a bank teller, to input the request into an interface incorporated into the computer terminal. The interface is inter-linked with the on-site storage system. Typically, all requests for a particular period are grouped together and subsequently downloaded for retrieval of the requested image by the financial institution. The financial institution retrieves the image, e.g. a photocopy of the check, and then distributes the photocopy to the client via facsimile, mail or hand delivery. The storing, downloading, and retrieving of the financial document, including the reproduction and the distribution of the document, are known in the industry as back office production. Back office production for financial institutions is particularly resource intensive, time consuming, and expensive. Also, back office production becomes increasingly expensive if the client requests a particularly old financial document because older financial documents frequently require more resources and time to locate and retrieve.

The majority of financial institutions electronically store financial documents only in an on-site storage system and not in an off-site storage system. Consequently, these financial

institutions are unable to outsource the responsibilities for the back office production to third party entities to alleviate the expenses and resources associated with the back office production. These financial institutions realize a significant financial burden since the back office production is concentrated strictly at the financial institution.

5 Other financial institutions do electronically store financial documents in on-site and off-site storage systems. However, the methods utilized by these financial institutions to access the financial documents stored in the off-site storage system are deficient in that the interface utilized in such methods is only inter-linked with the on-site storage system. That is, there is no interface independently inter-linked with the off-site storage system. As a result, the financial documents stored in the off-site storage system can not be efficiently accessed. These financial institutions are still responsible for retrieving the requested financial documents through their back office production and their expenses remain high. One such method of retrieving documents from on-site and off-sited storage systems is disclosed in United States Patent No. 5,784,610 to Copeland, III et al.

15 Due to the inefficiencies identified in the conventional methods used by financial institutions to obtain financial documents, it is desirable to implement a method for a financial institution to obtain electronically-stored financial documents from both on-site and off-site storage systems that reduces, if not eliminates, the back office production of the financial institution by providing a direct interface inter-linked with the off-site storage system. With such an interface, the responsibility for retrieving financial documents from the off-site storage can be outsourced to third party entities while still providing the financial institution

with efficient access to any financial documents electronically-stored in the off-site storage system.

SUMMARY OF THE INVENTION AND ADVANTAGES

5 A method for a financial institution to obtain electronically-stored financial documents having a specific document parameter is disclosed. The specific document parameter is typically a particular numerical sequence, such as a record date of the financial document. The method of the subject invention enables the financial institution to obtain the financial documents from an off-site storage system. The off-site storage system is remotely-located
10 from an on-site storage system. The financial documents of the financial institution are maintained in the off-site storage system when the specific document parameter of the financial document is greater than a predetermined parameter. The financial documents that are less than or equal to the predetermined parameter are maintained in the on-site storage system.

15 When the financial institution receives a request for a financial document, the financial institution compares the specific document parameter of the requested financial document to the predetermined parameter to determine if the specific document parameter is greater than, less than, or equal to the predetermined parameter. A computer terminal located at the financial institution is connected to both the off-site and on-site storage systems. The
20 computer terminal is utilized to access one of the storage systems in response to the comparison of the specific document parameter to the predetermined parameter. For instance,

if it is determined that the specific document parameter is less than or equal to the predetermined document parameter, then the computer terminal accesses the on-site storage system. On the other hand, if it is determined that the specific document parameter of the financial document is greater than the predetermined parameter, then the computer terminal
5 accesses the off-site storage system.

After the computer terminal accesses the appropriate storage system, identification data of the requested financial document is inputted into the computer. More specifically, to access the on-site storage system, the identification data is input into a primary interface that is specifically inter-linked with the on-site storage system. To access the off-site storage
10 system, an exit function is selected at the primary interface and the identification data is then input into a secondary interface that is initiated upon selection of the exit function. The secondary interface is specifically inter-linked with the off-site storage system.

Finally, after the identification data of the requested financial document is inputted, the requested document is then retrieved in order to reproduce the financial document, and
15 distribute the financial document to an end user of the financial institution.

The subject invention therefore provides a method that enables financial institutions to obtain electronically-stored financial documents from an off-site storage system via a secondary interface that is specifically inter-linked with the off-site storage system and the financial documents electronically-stored in that system. As such, the financial institution can
20 selectively store financial documents in either an on-site storage system or the off-site storage system, and the responsibility for the financial documents in the off-site storage system can be

outsourced to a third party entity. Therefore, the back office production of the financial institution associated with the retrieval and distribution of financial documents stored in the off-site storage system is strategically reduced or even completely eliminated.

BRIEF DESCRIPTION OF THE DRAWINGS

Other advantages of the present invention will be readily appreciated as the same becomes better understood by reference to the following detailed description when considered in connection with the accompanying drawings wherein:

Figure 1 is a flow diagram schematically detailing an on-site storage system, and an off-site storage system in accordance with the subject invention;

Figure 2 is a block diagram generally representing a method for a financial institution to obtain electronically-stored financial documents from the on-site and off-site storage systems;

Figure 3 is a block diagram completing the method of obtaining electronically-stored financial documents from the on-site storage system; and

Figure 4 is a block diagram completing the method of obtaining electronically-stored financial documents from the off-site storage system.

DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENT

Referring to the Figures, wherein like numerals indicate like or corresponding parts throughout the several views, a method for a financial institution to obtain an electronically-stored financial document is schematically shown at 10 in Figure 1. The method introduced in

the subject invention enables the financial institution to obtain the financial document from an off-site storage system remotely located from an on-site storage system. Preferably, the on-site storage system is located at the financial institution and the off-site storage system is located at a remote location distant from the financial institution. This allows the financial institution to 'outsource' the responsibilities associated with obtaining the financial document.

Methods for financial institutions to obtain electronically-stored documents are frequently used by such entities as banks, credit unions, and other financially-oriented institutions. For illustrative purposes only, the description of the subject invention is discussed with reference to banks. However, as appreciated by those skilled in the art, other businesses, such as insurance companies, may also utilize similar methods and incorporate the aspects of the subject invention.

Methods for banks to obtain electronically-stored financial documents are generally used by banks to rapidly and efficiently obtain financial documents for distribution to clients upon request. As described above, the financial documents for banks are usually paid checks, checking statements, and other related financial documents, and these documents include at least one specific document parameter. As appreciated by those skilled in the art, it is not the financial document (e.g. the paid check) itself that is electronically-stored. Rather, it is data included on the document such as a sequence number that is electronically stored to make up the financial document. The specific document parameter is preferably a particular numerical sequence. As appreciated, the specific document parameter of the financial document can include, but is not limited to, a record date or age of the document, a series number, or some

other document identifying number of the financial document. More specifically, in the preferred embodiment of the subject invention, the particular numerical sequence of the financial document is the record date of the financial document. That is, the date that the particular financial document was created or posted.

5 The financial documents are typically stored on microfiche, microfilm, digitally, or by some other electronic storage means. As appreciated, the electronic storage of the financial documents is frequently created by taking an electronic photo image of the document and storing the photo image in a computer system. One such digital electronic storage device is sold by Kodak under the name of *IMAGELINKTM* Digital Workstation (IDW). Electronic
10 storage of these financial documents permits banks to eliminate storage of paper or "hard" copies of these documents. The electronic storage of these documents also provides an efficient means of retrieving the information from the on-site and off-site storage systems. This will be discussed further herein below.

 As described above, the financial documents are electronically-stored in either the on-
15 site storage system located at the bank or in the off-site storage system remotely located from the on-site storage system. More specifically, the subject invention includes the step of maintaining the financial documents in the off-site storage system when the specific document parameter of the financial document is greater than a predetermined parameter. Financial documents are maintained in the on-site storage system when the specific document parameter
20 of the financial document is less than or equal to the predetermined parameter. As appreciated, the document parameter of the financial documents stored in the off-site storage

system may be greater than or equal to the predetermined parameter with the on-site storage system having documents only less than the predetermined parameter.

Similar to the specific document parameter of the financial document, the predetermined parameter is also a numerical value. The predetermined parameter is specifically a numerical value predetermined by the bank. For instance, if the specific document parameter is a series number of a paid check and the series number is greater than the predetermined parameter which, in this case, would be an arbitrarily selected base series number, then the paid check would be stored in the off-site storage system.

In the preferred embodiment of the subject invention, the predetermined numerical value is a date pre-selected by the bank. For instance, the bank may pre-select a date that is one year before a current date—the current date being the actual date that the client requests the financial document. Of course, the bank may pre-select a date that is some other time period before a current date (e.g. two or three years) without varying from the scope of the subject invention. As such, if the record date of the particular financial document is older than one year, then the particular financial document is maintained in the off-site storage system. If the record date of the particular financial document is earlier than or equal to one year, then the particular financial document is maintained in the on-site storage system. As discussed above, the document having record dates equal to the one year may be stored in the off-site or on-site storage systems.

Once the financial document is maintained in the appropriate storage system, the bank is capable of receiving a request for the financial document from the client. In reality, the

client is requesting an image of the stored financial document. As appreciated, clients request the image for various reasons. As discussed above, requests are typically made for replacing lost or stolen financial documents, for tax purposes, for proof of financial transactions, for legal disputes, and other similar matters. Ultimately, the bank retrieves the image, reproduces the image, and distributes the reproduced image to the requesting client of the bank.

Referring now to Figure 1, the method for banks to obtain electronically-stored financial documents is discussed in detail. Initially, the requesting client requests a particular financial document, such as a paid check. The client is typically a customer of the bank or other financial institution. The client's request is inputted into a computer terminal 11 at the financial institution. The computer terminal 11 will be discussed in more detail hereinbelow.

From the computer terminal 11, the request is fed into a mainframe computer 12 at the bank. In the preferred embodiment of the subject invention, if the client requests a financial document having a record date earlier than or equal to one year before the current date, then the request, and other requests like it, are processed at the bank in the on-site storage system. That is, the requests are grouped together and downloaded to a downloading terminal 14 at the bank. The downloading may occur at particular intervals such as at the end of each day, every three hours, etc. The sequence number of each check requested is then determined. A document terminal 16 subsequently creates or reproduces the document, i.e., a photocopy of the check. The photocopy is then distributed to the client via facsimile, mail, or hand delivery.

It is known in the art that the majority of requests for financial documents are requests for documents which were created in the most recent year. That is, if the pre-selected date is one year before the current date, as in the preferred embodiment, then the majority of requests are seeking financial documents having a record date earlier than or equal to the pre-selected
5 date. The remaining document requests relate to financial documents that are older than one year. Since, as described in the Background of the Invention, retrieval of financial documents that are older than one year is particularly expensive, the preferred embodiment of the subject invention outsources all of the document requests which relate to documents having a record date later than one year before the current date. As appreciated, the particular time frame
10 which is outsourced is not a critical feature of the subject invention and may be adjusted to meet the needs of any particular financial institution. In fact, all of the document requests, including the most recent, may be outsourced using the outsourcing procedure of the subject invention.

In the preferred embodiment, if the client requests a financial document having a
15 record date later than one year before the current date, then the request, and others like it, are grouped together and downloaded from the mainframe computer 12 to an outsourced downloading terminal 18. As above, the downloading may be at particular intervals as needed. The sequence number is determined by a sequencing terminal 20. The sequence number is then sent back to the outsourced downloading terminal 18. An outsourced document
20 terminal 22 then creates or reproduces the desired document which is then distributed to either the client or the bank. As appreciated, two document retrieval operations, one for the bank to

retrieve financial documents having record dates earlier than or equal to one year before the current date, and another to retrieve outsourced financial documents having record dates later than one year before the current date, preferably operate simultaneously. It is to be understood that the computer terminals and the accompanying PC bases are illustrated highly schematically in Figure 1 and are not intended to be limiting in any manner. For instance, the schematic illustration of the outsourced document terminal 22 need not include a computer terminal and an accompanying PC base. Instead, the outsourced document terminal 22 is preferably some sort of printing device.

Referring to Figures 2 through 4, the method for banks to obtain electronically-stored financial documents is described in even greater detail. The request is first generated by the client. The request is then processed by the bank. The processing, retrieval and reproduction of the requested financial document is typically controlled by one interlinked computer software program. One such computer software program is a software program called Antinori Software Incorporated or ASI which is sold under the name of *INNOVASIONTM* by Carreker-Antinori of Dallas, Texas. However, other frequently used software programs include *PEGATM* and *SterlingTM*. Any of these computer software systems can provide the necessary means for implementing the discussed procedures.

The processing of the request is completed by a customer service tracking system and the computer terminal 11. The customer service tracking system assists the financial institution in receiving the request. More specifically, the customer service tracking system gives branches, customer service, and other bank departments the capability to enter, log, track,

route and monitor the status of all requests for financial documents. The customer service tracking system also provides the capability to enter, log, track, route and monitor the status of customer complaints and other customer service related items.

A bank employee, such as a bank teller first determines a status of the requested document. More specifically, the employee compares the specific document parameter of the requested financial document to the predetermined parameter to determine if the specific document parameter is greater than, less than, or equal to the predetermined parameter. If the specific document parameter is a particular numerical sequence and the predetermined parameter is a predetermined numerical value, then the employee compares the particular numerical sequence of the financial document to the predetermined numerical value to determine if the particular numerical sequence is greater than, less than, or equal to the predetermined numerical value. Further, if as in the preferred embodiment, the particular numerical sequence is a record date of the financial document, and the predetermined numerical value is a pre-selected date, then the employee compares the record date of the financial document to the pre-selected date to determine if the record date is later than, earlier than, or equal to the pre-selected date.

The customer service tracking system enables a bank employee, such as a bank teller, to submit the request. More specifically, the employee utilizes the computer terminal 11 located at the bank and connected to both the off-site and on-site storage systems to access one of the storage systems in response to the comparison of the specific document parameter of the requested financial document to the predetermined parameter. For instance, when the

particular numerical sequence of the financial document is greater than the predetermined numerical value, the employee preferably utilizes the computer terminal 11 to access the off-site storage system, and when the particular numerical sequence of the financial document is less than or equal to the predetermined numerical value, the employee preferably utilizes the
5 computer terminal 11 to access the on-site storage system. As discussed above, the documents have a numerical sequence equal to the predetermined numerical value may be stored in either the off-site or on-site storage systems.

After the computer terminal 11 is utilized to access the desired storage system, the employee manually inputs identification data of the requested financial document into the
10 computer terminal 11. More specifically, when the particular numerical sequence of the financial document is less than or equal to the predetermined numerical value, the employee inputs identification data into a primary interface and selects the requested document. Also, the primary interface preferably provides an option for the employee to select among several different output formats. The primary interface is inter-linked with the on-site storage system.
15 In the preferred embodiment of the subject invention, the primary interface appears as follows and includes the identification data detailed below:

Account Number:		Prod Type:	
Account Name:		Customer Code:	
Address:			
City:	State:	Zip Code:	
Home Phone: ()		Work Phone: ()	
Fax: ()			
Service Code:			
For Items Posted Within A Year			
Copy of Statement Only		Savings Items	
Copy of Check/Deposit Ticket		Misc (G/L, Loans, Teller, Etc)	
Check(s)/Deposit(s)<30 Items		Cash Letter Reconstruction	
Statements and<30 Items		Lockbox	
Statements and>30 Items		Legal Statement Only	
Deposit Reconstruction		Legal Statement and Items	
Regardless of Posting Date			
Missing Transactions		Returned Items	
Online (Backdated/Unposted) Encoding Error/Wrong Account			
<hr/>			
<i>EXIT FUNCTION</i>			

Alternatively, when the particular numerical sequence of the financial document is greater than the predetermined numerical value, the employee selects an exit function at the primary interface. The exit function distinguishes that the request is to be sent to an outsourcing third party entity. Upon selection of the exit function at the primary interface, a secondary interface, inter-linked with the exit function, is initiated. The secondary interface is inter-linked with the off-site storage system. The employee inputs identification data into the secondary interface and selects the requested document. Also, the secondary interface

preferably provides an option for the employee to select among several different output formats. Preferably, routing, or service codes will be generated automatically upon the initiation of the secondary interface and the inputting of the identification data into the secondary interface. The routing codes enable the bank to recognize that the request is being
5 sent to the outsourced third party entity. Furthermore, the routing codes are configured to automatically forward the inputted identification data to the off-site storage system. The inputted identification data and the routing codes are forwarded into the mainframe computer
12 introduced above for temporary storage before transfer to the off-site storage system. This temporary storage also serves to defend against unexpected power outages, computer
10 malfunctions, and the like. In the preferred embodiment of the subject invention, the secondary interface appears as follows and includes the identification data detailed below:

Account Number:		Prod Type:	
Account Name:		Customer Code:	
Address:			
City:	State:	Zip Code:	
Home Phone: ()		Work Phone: ()	
Fax: ()			
Service Code:			
For Items Posted Prior to a Year			
Copy of Statement Only		Savings Items	
Copy of Check/Deposit Ticket		Misc (G/L, Loans, Teller, Etc)	
Check(s)/Deposit(s)<30 Items		Cash Letter Reconstruction	
Statements and<30 Items		Lockbox	
Statements and>30 Items		Legal Statement Only	
Deposit Reconstruction		Legal Statement and Items	

Once the bank employee has inputted the necessary identification data into either the primary or secondary interface, then retrieval of the financial document can continue. Specifically, the requested financial document is retrieved as defined by the inputted

5 identification data. Two separate document retrieval procedures are discussed hereinbelow. One document retrieval procedure is for the financial documents having a record date earlier than or equal to the pre-selected date—one year before the current date in this example. The other document retrieval procedure is for the financial documents having a record date later than the pre-selected date. As discussed above, the one year timing selected for the pre-selected date

10 is simply shown as an example and any suitable time frame may be utilized. In fact, even all

financial document retrievals may be outsourced to the third party entity. As also discussed above, the two separate document retrieval procedures will typically operate simultaneously.

With reference to the subject example, if the record date of the financial document is earlier than or equal to one year before the current date, the remaining steps occur at the bank.

5 As discussed above, these steps are known as the back office production of the bank. The request is first categorized by a research automation system. The research automation system automates the entire workflow of a bank's research and photocopy departments by sending requests to the appropriate sequence for processing. The downloading terminal 14 serves to perform the research automation system's tasks.

10 Photocopy requests are routed to an image control system, statement requests are sent to a document retrieval system, and requests for financial adjustments are routed to an adjustment system. The document terminal 16 serves to perform these tasks. In the illustrated embodiment of the subject invention, the sample document request is for a paid check. Hence, the categorized sequence will be the image control system which handles photocopy requests.

15 Referring now to Figure 3, after the request is categorized, the request is verified for completeness and accuracy. If the request is not complete then additional data is retrieved. The additional data is retrieved by using a sequence number retrieval system and/or an all items research system. Once the request is complete and accurate, then the image reference number can be determined. That is, once the request is complete and accurate, then the requested
20 financial document can be electronically located in the on-site storage system. The reference number may be a routing, sequence, or any other type of indicator. The reference number is

determined by the image control system. The image control system is an image retrieval and routing management system which works in conjunction with Kodak's *IMAGELINK*TM Digital Workstations (IDW). Specifically, the image control system first connects to a network node. The network node is any type of storage device as is known in the art. Preferably a Kodak
5 network node is used. The network node drives the IDW to find the location of the image by using the reference number. Specifically, the employee is prompted to verify that the correct media is loaded in the IDW such that the IDW can locate the image. The reference number for the document is known and the document image is now verified and located.

The requested image can now be retrieved and reproduced. In other words a copy of
10 the digitized document (the check) is created. The copy may be created by manually pulling the microfilm, microfiche, or the like and photocopying the document. The copy may also be made by printing the document from a digitized record. The photocopy of the check is then distributed to the requesting client or other end user of the financial institution. Other end users of the financial institution include, but are not limited to, other financial institutions and
15 federal and state governments. Additional information such as a photocopy report, a statement of charges, a research report and/or a daily status report may also be produced for the requesting client, the other end user, and/or the financial institution. The document retrieval system incorporated at the bank and the method for obtaining electronically-stored financial documents from the on-site storage system is now completed.

20 Continuing with the subject example, if the record date of the financial document is later than one year before the current date, the automated retrieval of the financial document is

outsourced to the third party entity. To begin, a separate file is automatically generated at the bank by the input of the identification data into the secondary interface. Referring specifically to Figure 4, the routing codes direct the request created on the separate file to be routed separately to the outsourced third party entity. In the preferred embodiment of the subject invention, additional user ID's are created to allow only selected users into the secondary interface. The identification data stored in the separate file and the routing codes are downloaded to the off-site storage system for retrieval of the requested financial documents by the outsourced downloading terminal 18. Preferably, the identification data and routing codes are grouped into batches of common requests for optimum retrieval of the requested financial document by the outsourced third party entity at the off-site storage system. The downloading step may occur at any suitable predetermined interval. Preferably, the downloading will occur three times a day. The downloaded documents are known in the industry as a basket of requests.

The subject method further includes the step of creating a back-up file of the downloaded identification data and routing codes in the off-site storage system. The back-up file acts as an emergency information source in case the mainframe computer 12 at the financial institution has a catastrophic failure. In addition, the outsourced third party entity is in direct connection with the mainframe computer 12 of the bank wherein the outsourced third party entity may produce a backup directory of each database file. This database backup is an additional safe guard for the financial institution.

The downloaded identification data and routing codes are then categorized for processing in the off-site storage system. The research automation system categorizes this

information in a like fashion as discussed above. In fact, the outsourced third party entity uses the same computer software package as the financial institution such that the flow of information is optimum and not interrupted. As discussed above, the subject example request is for a paid check. Hence, the request will be categorized into the image control system and a sequence
5 number will be determined by the sequencing terminal 20. Also, a status to update the progress of the requested financial document is provided to the financial institution.

After the request is categorized, the request, specifically the inputted identification data, is verified for completeness and accuracy. If the request is not complete or accurate, then additional data is retrieved. In a similar fashion as above, the additional data is retrieved
10 by using the sequence number retrieval system and/or the all items research system. As appreciated, the outsourced third party entity may retrieve this information from the mainframe computer 12, via its direct line, or from its own backup database files. Once the request is complete and accurate, the image reference number can be determined. Again, as above, the reference number is determined by the image control system.

15 The requested image is then retrieved. More specifically, the requested financial document is electronically located in the off-site storage system. Additionally, the requested financial document is also reproduced after the document is electronically located in the off-site storage system by the outsourced document terminal 22. In other words, a copy of the digitized document (the check) is created. A status file is then created for the completed
20 transaction. Also, a status of the request is sent to the financial institution wherein the institution may update their records. The status updates, as well as the information

connections, create a two way information exchange between the outsourced third party entity and the bank.

The photocopy of the check is then distributed or digitally transferred to the requesting client, the financial institution, or other end users of the financial institution. In the preferred embodiment of the subject invention, the photocopy of the request is distributed to the requesting client, etc. based on the routing codes. That is, in addition to directing the request to be separately routed to the outsourced third party entity, the routing codes also indicate an appropriate distribution for the request client or other end user. The request is now completed.

A special circumstance occurs when the record date of one portion of the client's request is earlier than or equal to one year before the current date, and when the record date of another portion of the client's request is later than one year before the current date. These types of requests are known in the industry as spanned requests. One solution is to incorporate an additional interface utilized when the employee of the bank is utilizing the computer terminal and comparing the specific document parameter of the requested financial document to the predetermined parameter to determine if the specific document parameter is greater than, less than, or equal to the predetermined parameter. If the request is a spanned request, then the request will be split into two separate requests which can be handled simultaneously. A special notation would be put onto the requests such that they may be put back together before distributing the documents to the client or other end user. Another solution simply notifies the inputting employee that two requests should be entered separately. A third solution sends the

request to the back office production at the bank wherein the back office employees notify the outsourced third party entity by a separate request to retrieve the requested financial documents.

The invention has been described in an illustrative manner, and it is to be understood that the terminology which has been used is intended to be in the nature of words of
5 description rather than of limitation. Obviously, many modifications and variations of the present invention are possible in light of the above teachings. It is, therefore, to be understood that within the scope of the appended claims, wherein reference numerals are merely for convenience and are not to be in any way limiting, the invention may be practiced otherwise than as specifically described.

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	
		Application Number	
Title of Invention	REMOTE DOCUMENT RETRIEVAL AND STORAGE SYSTEM		
<p>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.</p> <p>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.</p>			

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.)

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Application Data Sheet 37 CFR 1.76		Attorney Docket Number	
		Application Number	
Title of Invention	REMOTE DOCUMENT RETRIEVAL AND STORAGE SYSTEM		
Name 1	Michael	Name 2	Schulze
Address 1	1607 Kirts Blvd		
Address 2	Apt. #103		
City	Troy	State/Province	Mi
Country i	US	Postal Code	48084
Phone Number	586-850-8143	Fax Number	
Email Address	michaelschulze@hotmail.com		<input type="button" value="Add Email"/> <input type="button" value="Remove Email"/>

Application Information:

Title of the Invention	REMOTE DOCUMENT RETRIEVAL AND STORAGE SYSTEM		
Attorney Docket Number		Small Entity Status Claimed	<input type="checkbox"/>
Application Type	Nonprovisional		
Subject Matter	Utility		
Suggested Class (if any)	2162	Sub Class (if any)	
Suggested Technology Center (if any)			
Total Number of Drawing Sheets (if any)	4	Suggested Figure for Publication (if any)	

Publication Information:

<input type="checkbox"/> Request Early Publication (Fee required at time of Request 37 CFR 1.219)
<input type="checkbox"/> Request Not to Publish. I hereby request that the attached application not be published under 35 U.S.C. 122(b) and certify that the invention disclosed in the attached application has not and will not be the subject of an application filed in another country, or under a multilateral international agreement, that requires publication at eighteen months after filing.

Representative Information:

Representative information should be provided for all practitioners having a power of attorney in the application. Providing this information in the Application Data Sheet does not constitute a power of attorney in the application (see 37 CFR 1.32). Enter either 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:	<input checked="" type="radio"/> Customer Number	<input type="radio"/> US Patent Practitioner	<input type="radio"/> Limited Recognition (37 CFR 11.9)
Customer Number	000113243		

Domestic Benefit/National Stage Information:

This section allows for the applicant to either claim benefit under 35 U.S.C. 119(e), 120, 121, or 365(c) or indicate National Stage entry from a PCT application. Providing this information in the application data sheet constitutes the specific reference required by 35 U.S.C. 119(e) or 120, and 37 CFR 1.78(a)(2) or CFR 1.78(a)(4), and need not otherwise be made part of the specification.	
Prior Application Status	Pending

Application Data Sheet 37 CFR 1.76		Attorney Docket Number			
		Application Number			
Title of Invention		REMOTE DOCUMENT RETRIEVAL AND STORAGE SYSTEM			

Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)
13840892	Continuation of	13272936	2013-03-15
Prior Application Status	Abandoned	Remove	
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)
3272936	Continuation of	12902973	2010-10-12
Prior Application Status	Patented	Remove	

Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)	Patent Number	Issue Date (YYYY-MM-DD)
12902973	Continuation of	12489087	2009-06-22	7836067	2010-11-16
Prior Application Status	Patented	Remove			
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)	Patent Number	Issue Date (YYYY-MM-DD)
12489087	Continuation of	11202790	2005-08-12	7552118	2009-06-23
Prior Application Status	Patented	Remove			
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)	Patent Number	Issue Date (YYYY-MM-DD)
11202790	Continuation of	10104541	2002-03-22	6963866	2005-11-08
Prior Application Status	Patented	Remove			
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)	Patent Number	Issue Date (YYYY-MM-DD)
10104541	Continuation of	09548490	2000-04-13	6446072	2002-09-03
Prior Application Status	Expired	Remove			
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)	Patent Number	Issue Date (YYYY-MM-DD)
09548490	Continuation of	60129021	1999-04-13		

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

Foreign Priority Information:

This section allows for the applicant to claim benefit of foreign priority and to identify any prior foreign application for which priority is not claimed. 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(a).

Remove			
Application Number	Country ⁱ	Parent Filing Date (YYYY-MM-DD)	Priority Claimed
			<input type="radio"/> Yes <input type="radio"/> No

Additional Foreign Priority Data may be generated within this form by selecting the **Add** button. [Add](#)

Assignee Information:

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

Assignee 1	Remove
If the Assignee is an Organization check here. <input checked="" type="checkbox"/>	

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	
		Application Number	
Title of Invention	REMOTE DOCUMENT RETRIEVAL AND STORAGE SYSTEM		

Organization Name	Mirror Imaging L.L.C.		
Mailing Address Information:			
Address 1	27500 Donald Court		
Address 2			
City	Warren	State/Province	MI
Country i	US	Postal Code	48092
Phone Number		Fax Number	
Email Address			
Additional Assignee Data may be generated within this form by selecting the Add button.			
			<input type="button" value="Add"/>

Signature:

A signature of the applicant or representative is required in accordance with 37 CFR 1.33 and 10.18. Please see 37 CFR 1.4(d) for the form of the signature.					
Signature	/Michael D. Schulze/			Date (YYYY-MM-DD)	2015-09-18
First Name	Michael	Last Name	Schulze	Registration Number	

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.**

Privacy Act Statement

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

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

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

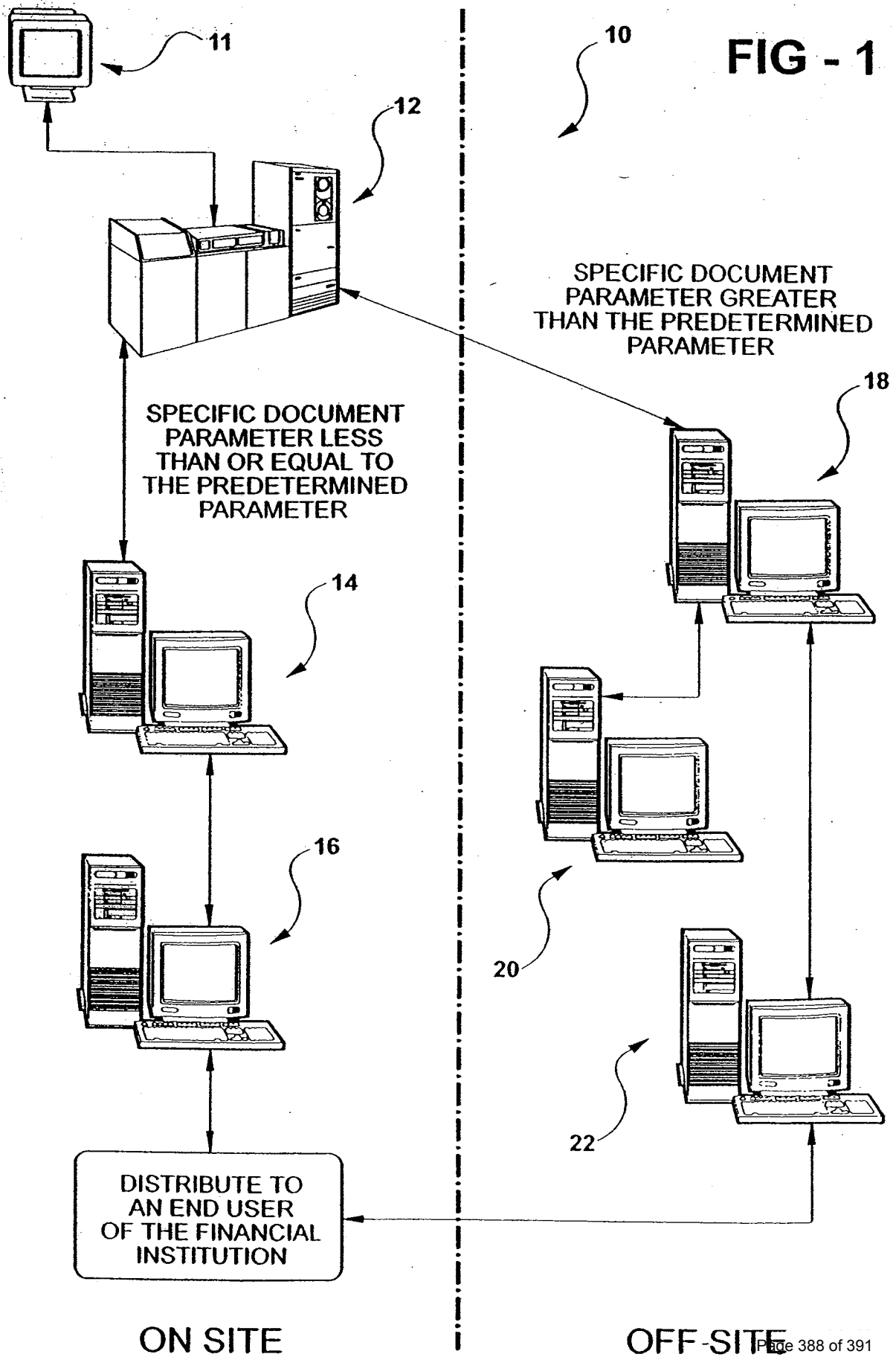
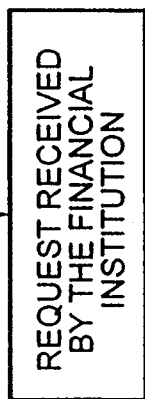


FIG - 2



IF SPECIFIC DOCUMENT
PARAMETER IS LESS THAN
OR EQUAL TO THE
PREDETERMINED PARAMETER

IF SPECIFIC DOCUMENT
PARAMETER IS GREATER
THAN THE PREDETERMINED
PARAMETER

INPUT IDENTIFICATION
DATA OF THE
REQUESTED FINANCIAL
DOCUMENT

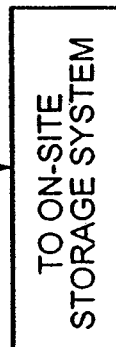


FIG - 3

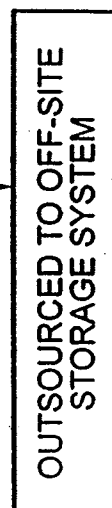
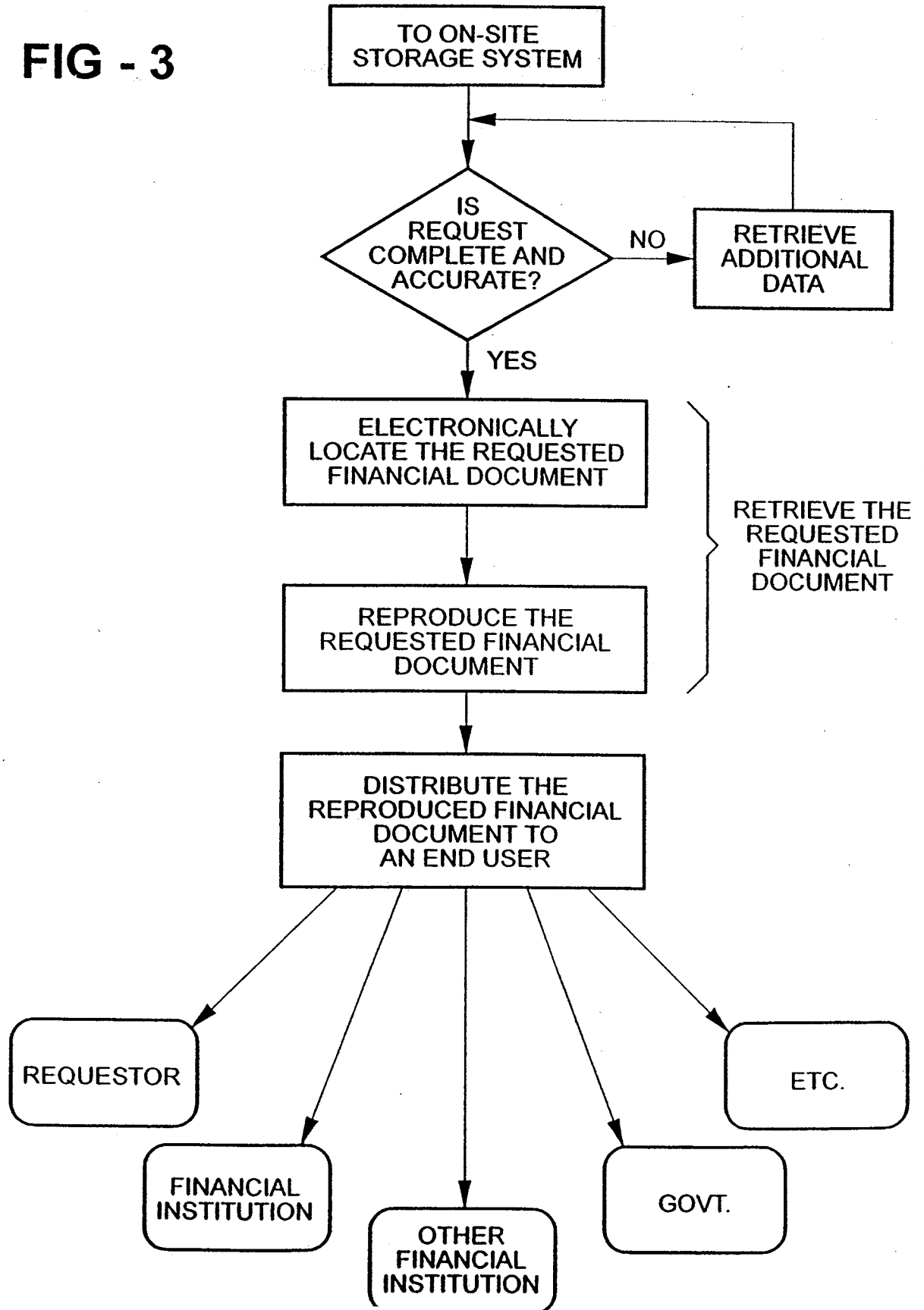


FIG - 4

(ON-SITE STORAGE SYSTEM)

FIG - 3



(OFF-SITE STORAGE SYSTEM)

FIG - 4

