

AO 120 (Rev. 08/10)

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

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

DOCKET NO. 6:21-cv-01372	DATE FILED December 29, 2021	U.S. DISTRICT COURT Western District of Texas - Waco Division
PLAINTIFF Topia Technology, Inc.		DEFENDANT Box, Inc., Sailpoint Technologies Holdings, Inc., and Vistra Corp.
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
1 9,143,561	Sep. 22, 2015	Topia Technology, Inc.
2 10,067,942	Sep. 4, 2018	Topia Technology, Inc.
3 10,289,607	May 14, 2019	Topia Technology, Inc.
4 10,642,787	May 5, 2020	Topia Technology, Inc.
5 10,754,823	Aug. 25, 2020	Topia Technology, Inc.

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

DATE INCLUDED	INCLUDED BY <input type="checkbox"/> Amendment <input type="checkbox"/> Answer <input type="checkbox"/> Cross Bill <input type="checkbox"/> Other Pleading	
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
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In the above—entitled case, the following decision has been rendered or judgement issued:

DECISION/JUDGEMENT

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

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PLAINTIFF Topia Technology, Inc.		DEFENDANT Box, Inc., Sailpoint Technologies Holdings, Inc., and Vistra Corp.
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
1 11,003,622	May 11, 2021	Topia Technology, Inc.
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In the above—entitled case, the following patent(s)/ trademark(s) have been included:

DATE INCLUDED	INCLUDED BY <input type="checkbox"/> Amendment <input type="checkbox"/> Answer <input type="checkbox"/> Cross Bill <input type="checkbox"/> Other Pleading	
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☐ Trademarks or ☒ Patents. (☐ the patent action involves 35 U.S.C. § 292.);

DOCKET NO. 6:21-cv-01373	DATE FILED December 29, 2021	U.S. DISTRICT COURT Western District of Texas - Waco Division
PLAINTIFF Topia Technology, Inc.		DEFENDANT Dropbox, Inc., Sailpoint Technologies Holdings, Inc., and Clear Channel Outdoor Holdings, Inc.
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
1 9,143,561	Sep. 22, 2015	Topia Technology, Inc.
2 10,067,942	Sep. 4, 2018	Topia Technology, Inc.
3 10,289,607	May 14, 2019	Topia Technology, Inc.
4 10,642,787	Aug. 25, 2020	Topia Technology, Inc.
5 10,754,823	Aug. 25, 2020	Topia Technology, Inc.

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In Compliance with 35 U.S.C. § 290 and/or 15 U.S.C. § 1116 you are hereby advised that a court action has been filed in the U.S. District Court Western District of Texas - Waco Division on the following

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

DOCKET NO. 6:21-cv-01373	DATE FILED December 29, 2021	U.S. DISTRICT COURT Western District of Texas - Waco Division
PLAINTIFF Topia Technology, Inc.		DEFENDANT Dropbox, Inc., Sailpoint Technologies Holdings, Inc., and Clear Channel Outdoor Holdings, Inc.
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
1 11,003,622	May 11, 2021	Topia Technology, Inc.
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DECISION/JUDGEMENT

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In Compliance with 35 U.S.C. § 290 and/or 15 U.S.C. § 1116 you are hereby advised that a court action has been
filed in the U.S. District Court District of Delaware on the following

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

DOCKET NO.	DATE FILED 12/27/2021	U.S. DISTRICT COURT District of Delaware
PLAINTIFF TOPIA TECHNOLOGY, INC.		DEFENDANT EGNYTE, INC.
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
1 9,143,561	9/22/2015	Topia Technology, Inc.
2 10,067,942	9/4/2018	Topia Technology, Inc.
3 10,289,607	5/14/2019	Topia Technology, Inc.
4 10,642,787	5/5/2020	Topia Technology, Inc.
5 10,754,823	8/25/2020	Topia Technology, Inc.

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

DATE INCLUDED	INCLUDED BY <input type="checkbox"/> Amendment <input type="checkbox"/> Answer <input type="checkbox"/> Cross Bill <input type="checkbox"/> Other Pleading	
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
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In the above—entitled case, the following decision has been rendered or judgement issued:

DECISION/JUDGEMENT

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

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Save As...

Page 5 of 5

ADDENDUM TO AO 120 (ADDITIONAL PATENTS)

Docket No.		Date Filed 12/27/2021	U.S. District Court for the District of Delaware
PLAINTIFF TOPIA TECHNOLOGY, INC.			DEFENDANT EGNYTE, INC.
PATENT OR TRADEMARK NO.		DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
6	11,003,622	05/11/2021	Topia Technology, Inc.
7			
8			
9			
10			



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
16/750,399	01/23/2020	Michael R. MANZANO	030721

23373
SUGHRUE MION, PLLC
2000 PENNSYLVANIA AVENUE, N.W.
SUITE 9000
WASHINGTON, DC 20006

CONFIRMATION NO. 9316
POA ACCEPTANCE LETTER



Date Mailed: 01/14/2022

NOTICE OF ACCEPTANCE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 01/11/2022.

The Power of Attorney in this application is accepted. Correspondence in this application will be mailed to the above address as provided by 37 CFR 1.33.

Questions about the contents of this notice and the requirements it sets forth should be directed to the Office of Data Management, Application Assistance Unit, at (571) 272-4000 or (571) 272-4200 or 1-888-786-0101.

/ltaba/

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

**CHANGE OF
CORRESPONDENCE ADDRESS
Patent**Address to:
Mail Stop Post Issue
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Patent Number	10,642,787
Issue Date	May 5, 2020
Application Number	16/750,399
Filing Date	January 23, 2020
First Named Inventor	Michael R. Manzano
Attorney Docket Number	A271733

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



The address associated with Customer Number:

23373**OR****Firm or
Individual Name****Address****City****State****ZIP****Country****Telephone****Email**

This form cannot be used to change the data associated with a Customer Number. To change the data associated with an existing Customer Number use "Request for Customer Number Data Change" (PTO/SB/124).

This form will not affect any "fee address" provided for the above-identified patent. To change a "fee address" use the "Fee Address Indication Form" (PTO/SB/47).

I am the:



Patentee.

Assignee of record of the entire interest. See 37 CFR 3.71.
Statement under 37 CFR 3.73(b) is enclosed. (Form PTO/SB/96).Attorney or agent of record. Registration Number **54,666**.

Signature

/ Andrew J. Taska /

Typed or
Printed Name

Andrew J. Taska

Date

01/11/2022

Telephone **202-293-7060**

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



*Total of _____ forms are submitted.

This collection of information is required by 37 CFR 1.33. 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: Mail Stop Post Issue, 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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Page 8

Privacy Act Statement

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

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

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

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

STATEMENT UNDER 37 CFR 3.73(c)Applicant/Patent Owner: Topia Technology, Inc.Application No./Patent No.: 10,642,787 Filed/Issue Date: May 5, 2020Titled: PRE-FILE-TRANSFER UPDATE BASED ON PRIORITIZED METADATATopia Technology, Inc., a Corporation

(Name of Assignee)

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

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

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

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

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

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

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

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

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

1. From: Michael R. Manzano To: TOPIA TECHNOLOGY, INC.The document was recorded in the United States Patent and Trademark Office at
Reel 051598, Frame 0319, or for which a copy thereof is attached.2. From: John C. Haager To: TOPIA TECHNOLOGY, INC.The document was recorded in the United States Patent and Trademark Office at
Reel 058279, Frame 0956, or for which a copy thereof is attached.

[Page 1 of 2]

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

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

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Page 10

STATEMENT UNDER 37 CFR 3.73(c)

3. From: _____ To: _____

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

4. From: _____ To: _____

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

5. From: _____ To: _____

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

6. From: _____ To: _____

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

☐ Additional documents in the chain of title are listed on a supplemental sheet(s).

☐ As required by 37 CFR 3.73(c)(1)(i), the documentary evidence of the chain of title from the original owner to the assignee was, or concurrently is being, submitted for recordation pursuant to 37 CFR 3.11.

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

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

/ Andrew J. Taska /

Signature

Andrew J. Taska

Printed or Typed Name

01/11/2022

Date

54,666

Title or Registration Number

Privacy Act Statement

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

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

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

POWER OF ATTORNEY BY APPLICANT

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

I hereby appoint:

Andrew J. Taska, Registration No. 54,666, and
John M. Bird, Registration No. 46,027

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/B2A).

Please recognize or change the correspondence address for the application identified in the attached transmittal letter to:

The address associated with the above-mentioned Customer Number.

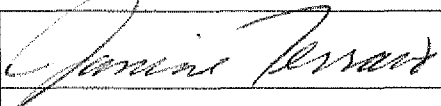
I am the Applicant (if the Applicant is a juristic entity, list the Applicant name in the box):

TOPIA TECHNOLOGY, INC.

- ☐ 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)	12/16/21
Name	Janine Terrano		
Title	CEO of TOPIA TECHNOLOGY, INC.		

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

- ☒ Total of 1 forms are submitted.

Electronic Acknowledgement Receipt

EFS ID:	44717872
Application Number:	16750399
International Application Number:	
Confirmation Number:	9316
Title of Invention:	PRE-FILE-TRANSFER UPDATE BASED ON PRIORITIZED METADATA
First Named Inventor/Applicant Name:	Michael R. MANZANO
Customer Number:	23373
Filer:	Andrew Joseph Taska/Mildred Cabrera
Filer Authorized By:	Andrew Joseph Taska
Attorney Docket Number:	030721
Receipt Date:	11-JAN-2022
Filing Date:	23-JAN-2020
Time Stamp:	14:33:29
Application Type:	Utility under 35 USC 111(a)

Payment information:

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

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Change of Address	A271733SecondChangeofAddress10642787.pdf	123285 0f6c6f6b59ce72582286c4ebd232b9cc28ae2dd9	no	2

Warnings:

Box & Dropbox Exhibit 1010

Information:					
2	Assignee showing of ownership per 37 CFR 3.73	A271733StatementUnder373.pdf	229335 a56ec07287485e126bf2b8462260e7dbc398325e	no	3
Warnings:					
Information:					
3	Power of Attorney	A271733ExecutedPowerofAttorney.pdf	147589 c17aef9f8f010a4fa127f8a3991df2ad0d13c3c9	no	1
Warnings:					
Information:					
Total Files Size (in bytes):			500209		
<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>					



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
16/750,399	01/23/2020	Michael R. MANZANO	030721

23373
SUGHRUE MION, PLLC
2000 PENNSYLVANIA AVENUE, N.W.
SUITE 9000
WASHINGTON, DC 20006

CONFIRMATION NO. 9316
POA ACCEPTANCE LETTER



Date Mailed: 12/28/2021

NOTICE OF ACCEPTANCE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 12/22/2021.

The Power of Attorney in this application is accepted. Correspondence in this application will be mailed to the above address as provided by 37 CFR 1.33.

Questions about the contents of this notice and the requirements it sets forth should be directed to the Office of Data Management, Application Assistance Unit, at (571) 272-4000 or (571) 272-4200 or 1-888-786-0101.

/sleutchit/

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

CHANGE OF CORRESPONDENCE ADDRESS *Patent*

Address to:
Mail Stop Post Issue
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Patent Number	10,642,787
Issue Date	May 5, 2020
Application Number	16/750,399
Filing Date	January 23, 2020
First Named Inventor	Michael R. Manzano
Attorney Docket Number	030721

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



The address associated with Customer Number:

23373

OR



**Firm or
Individual Name**

Address

City

State

ZIP

Country

Telephone

Email

This form cannot be used to change the data associated with a Customer Number. To change the data associated with an existing Customer Number use "Request for Customer Number Data Change" (PTO/SB/124).

This form will not affect any "fee address" provided for the above-identified patent. To change a "fee address" use the "Fee Address Indication Form" (PTO/SB/47).

I am the:



Patentee.



Assignee of record of the entire interest. See 37 CFR 3.71.
Statement under 37 CFR 3.73(b) is enclosed. (Form PTO/SB/96).



Attorney or agent of record. Registration Number **54,666**.

Signature

/ Andrew J. Taska /

Typed or
Printed Name

Andrew J. Taska

Date

December 22, 2021

Telephone **202-293-7060**

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



*Total of _____ forms are submitted.

This collection of information is required by 37 CFR 1.33. 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: Mail Stop Post Issue, 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.

Box & Dropbox Exhibit 1010

Page 17

Privacy Act Statement

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

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

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

Electronic Acknowledgement Receipt

EFS ID:	44588750
Application Number:	16750399
International Application Number:	
Confirmation Number:	9316
Title of Invention:	PRE-FILE-TRANSFER UPDATE BASED ON PRIORITIZED METADATA
First Named Inventor/Applicant Name:	Michael R. MANZANO
Customer Number:	909
Filer:	Andrew Joseph Taska/Mildred Cabrera
Filer Authorized By:	Andrew Joseph Taska
Attorney Docket Number:	023027-0509067
Receipt Date:	22-DEC-2021
Filing Date:	23-JAN-2020
Time Stamp:	13:48:52
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	Change of Address	030721ChangeofAddress10642787.pdf	112642 1c6639be472b5b144d94d4f85120bcc5cfac b3ff	no	2

Warnings:

Box & Dropbox Exhibit 1010

Information:	
Total Files Size (in bytes):	112642
<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>	



UNITED STATES PATENT AND TRADEMARK OFFICE

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APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
16/750,399	01/23/2020	Michael R. MANZANO	023027-0509067

CONFIRMATION NO. 9316

POWER OF ATTORNEY NOTICE

909
Pillsbury Winthrop Shaw Pittman, LLP
PO Box 10500
McLean, VA 22102



Date Mailed: 12/21/2021

NOTICE REGARDING CHANGE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 12/17/2021.

- The Power of Attorney to you in this application has been revoked by the assignee who has intervened as provided by 37 CFR 3.71. Future correspondence will be mailed to the new address of record(37 CFR 1.33).

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.

/hteffer/



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
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APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
16/750,399	01/23/2020	Michael R. MANZANO	023027-0509067

CONFIRMATION NO. 9316

POA ACCEPTANCE LETTER

909
Pillsbury Winthrop Shaw Pittman, LLP
PO Box 10500
McLean, VA 22102



Date Mailed: 12/21/2021

NOTICE OF ACCEPTANCE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 12/17/2021.

The Power of Attorney in this application is accepted. Correspondence in this application will be mailed to the above address as provided by 37 CFR 1.33.

Questions about the contents of this notice and the requirements it sets forth should be directed to the Office of Data Management, Application Assistance Unit, at (571) 272-4000 or (571) 272-4200 or 1-888-786-0101.

/hteffer/

PATENT APPLICATION

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of

Docket No: 030721

Michael R. Manzano

Group Art Unit: 2158

Appln. No.: 16/750,399

Examiner: CHANNAVAJJALA,
SRIRAMA T.

Confirmation No.: 9316

Patent No.: 10,642,787

Filed: January 23, 2020

Issue Date: May 5, 2020

For: PRE-FILE-TRANSFER UPDATE BASED ON PRIORITIZED METADATA

**PETITION UNDER 37 C.F.R. § 1.324 TO CORRECT INVENTORSHIP IN PATENT TO
ADD INVENTOR(S), PURSUANT TO 35 U.S.C. § 256**

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

Sir:

The undersigned, on behalf of the Inventors and the Assignee, petitions the Director in accordance with 37 C.F.R. § 1.324(a) to correct inventorship of the above-identified patent by adding the names of John C. Haager as co-inventor.

REMARKS

In accordance with 37 C.F.R. § 1.324(b), submitted herewith are the following:

(1) A statement from each person who is being added as an inventor and each person who is currently named as an inventor either agreeing to the change of inventorship or stating that he or she has no disagreement in regard to the requested change;

(2) A statement from all assignees of the parties submitting a statement under paragraph
(b)(1) of this section agreeing to the change of inventorship in the patent, which statement must
comply with the requirements of § 3.73(c) of this chapter; and

(3) The fee set forth in § 1.20(b).

The processing fee of \$160.00 set forth in 37 C.F.R. § 1.20(b) is being remitted.

The USPTO is directed and authorized to charge the processing fee of \$160.00 and all
required fees, except for the Issue Fee and the Publication Fee, to Deposit Account No. 19-4880.

Please also credit any overpayments to said Deposit Account.

Respectfully submitted,

/Andrew J. Taska/

Andrew J. Taska
Registration No. 54,666

SUGHRUE MION, PLLC
Telephone: 202.293.7060
Facsimile: 202.293.7860

WASHINGTON OFFICE

23373

CUSTOMER NUMBER

Date: December 17, 2021

POWER OF ATTORNEY BY APPLICANT

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

I hereby appoint:

Andrew J. Taska, Registration No. 54,666, and
John M. Bird, Registration No. 46,027

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/B2A).

Please recognize or change the correspondence address for the application identified in the attached transmittal letter to:

The address associated with the above-mentioned Customer Number.

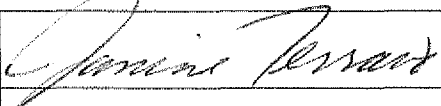
I am the Applicant (if the Applicant is a juristic entity, list the Applicant name in the box):

TOPIA TECHNOLOGY, INC.

- ☐ 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)	12/16/21
Name	Janine Terrano		
Title	CEO of TOPIA TECHNOLOGY, INC.		

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

- ☒ Total of 1 forms are submitted.

PATENT APPLICATION

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of	Docket No: 030721
Michael R. Manzano	Group Art Unit: 2158
Appln. No.: 16/750,399	Examiner: CHANNAVAJJALA, SRIRAMA T.
Confirmation No.: 9316	Patent No.: 10,642,787
Filed: January 23, 2020	Issue Date: May 5, 2020
For: PRE-FILE-TRANSFER UPDATE BASED ON PRIORITIZED METADATA	

**STATEMENT OF ASSIGNEE OF RIGHTS FROM ALL ASSIGNEES OF PARTIES
SUBMITTING A STATEMENT UNDER (1) & (2) IN SUPPORT OF PETITION UNDER
37 C.F.R. § 1.324 TO CORRECT INVENTORSHIP OF PATENT**

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

Sir:

The undersigned, a representative of TOPIA TECHNOLOGY, INC., represents that TOPIA TECHNOLOGY, INC. is the owner of the entire right, title and interest of Application No. 16/750,399, (now United States Patent 10,642,787), filed on January 23, 2020 for PRE-FILE-TRANSFER UPDATE BASED ON PRIORITIZED METADATA by virtue of an Assignment from all of the currently named inventors thereof recorded on January 23, 2020 at Reel 051598 and Frame 0319 and by virtue of an Assignment from the inventor to be added, which is submitted herewith.

The undersigned hereby certifies that the above-mentioned Assignments have been reviewed and to the best of the undersigned's knowledge and belief, title is in who is seeking to take this action.

The undersigned (whose title is supplied below) is empowered to sign this consent statement on behalf of the assignee.

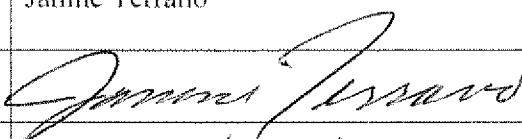
STATEMENT OF ASSIGNEE OF RIGHTS FROM ALL ASSIGNEES OF PARTIES
SUBMITTING A STATEMENT UNDER (1) & (2) IN SUPPORT OF PETITION
UNDER 37 C.F.R. § 1.324 TO CORRECT INVENTORSHIP OF PATENT

Attorney Docket No.: 030721

Appln.No.: 16/750,399

Patent No.: 10,642,787

Janine Terrano, CEO of TOPIA TECHNOLOGY, INC., on behalf of TOPIA
TECHNOLOGY, INC., hereby agrees to the correction of inventorship in connection with the
above-identified patent whereby the name of John C. Haager is added as a coinventor.

Name	Janine Terrano	Title	CEO
Signature			
Date	12/26/21		

PATENT APPLICATION

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of

Docket No: 030721

Michael R. Manzano

Group Art Unit: 2158

Appln. No.: 16/750,399

Examiner: CHANNAVAJJALA,
SRIRAMA T.

Confirmation No.: 9316

Patent No.: 10,642,787

Filed: January 23, 2020

Issue Date: May 5, 2020

For: PRE-FILE-TRANSFER UPDATE BASED ON PRIORITIZED METADATA

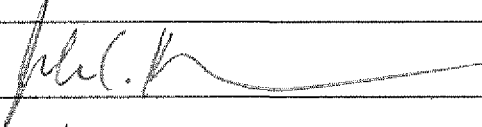
**STATEMENT FROM ADDED INVENTOR IN SUPPORT OF PETITION UNDER 37
C.F.R. § 1.324 TO CORRECT INVENTORSHIP OF PATENT**

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

Sir:

I, John C. Haager, the inventor being added to the above-identified patent, hereby declare that I have no disagreement in regard to the requested change in inventors.

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

Name of Added Inventor	John C. Haager
Signature	
Date	11/15/2021

PATENT APPLICATION

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of

Docket No: 030721

Michael R. Manzano

Group Art Unit: 2158

Appln. No.: 16/750,399

Examiner: CHANNAVAJALA, SRIRAMA
T.

Confirmation No.: 9316

Patent No.: 10,642,787

Filed: January 23, 2020

Issue Date: May 5, 2020

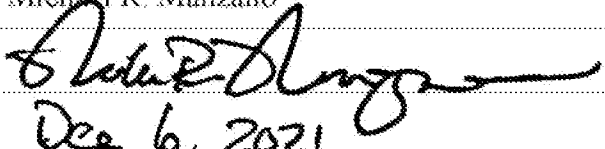
For: PRE-FILE-TRANSFER UPDATE BASED ON PRIORITIZED METADATA

**STATEMENT FROM CURRENT NAMED INVENTOR, WHO IS NOT A PERSON
BEING ADDED AS AN INVENTOR, IN SUPPORT OF PETITION UNDER 37
C.F.R. § 1.324 TO CORRECT INVENTORSHIP OF PATENT**

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

Sir:

I, Michael R. Manzano, the current named inventor, of the above-identified patent who is not a person being added as an inventor do hereby declare that I have no disagreement in regard to the requested change in inventors.

Name of Inventor	Michael R. Manzano
Signature	
Date	Dec 6, 2021

Electronic Patent Application Fee Transmittal				
Application Number:		16750399		
Filing Date:		23-Jan-2020		
Title of Invention:		PRE-FILE-TRANSFER UPDATE BASED ON PRIORITIZED METADATA		
First Named Inventor/Applicant Name:		Michael R. MANZANO		
Filer:		Andrew Joseph Taska/Mildred Cabrera		
Attorney Docket Number:		023027-0509067		
Filed as Large Entity				
Filing Fees for Utility under 35 USC 111(a)				
Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
PROCESSING FEE CORRECTING INVENTORSHIP	1816	1	160	160

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Extension-of-Time:				
Miscellaneous:				
Total in USD (\$)				160

Electronic Acknowledgement Receipt

EFS ID:	44551919
Application Number:	16750399
International Application Number:	
Confirmation Number:	9316
Title of Invention:	PRE-FILE-TRANSFER UPDATE BASED ON PRIORITIZED METADATA
First Named Inventor/Applicant Name:	Michael R. MANZANO
Customer Number:	909
Filer:	Andrew Joseph Taska/Mildred Cabrera
Filer Authorized By:	Andrew Joseph Taska
Attorney Docket Number:	023027-0509067
Receipt Date:	17-DEC-2021
Filing Date:	23-JAN-2020
Time Stamp:	16:49:53
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	CARD
Payment was successfully received in RAM	\$ 160
RAM confirmation Number	E2021BGG50131117
Deposit Account	
Authorized User	

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

File Listing:					
Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Request under Rule 48 correcting inventorship	030721PetitiontoCorrectInventorshipofPatentunder132410642787.pdf	85529	no	2
			38901dd645784375ecc1d264ced3dc88824de5e6		
Warnings:					
Information:					
2	Power of Attorney	Executed_Power_of_Attorney.pdf	47433	no	1
			e7b086152fbc6e996f6386148335950f88d18547		
Warnings:					
Information:					
3	Request under Rule 48 correcting inventorship	STATEMENT_OF_ASSIGNEEpdf.pdf	60539	no	2
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Warnings:					
Information:					
4	Request under Rule 48 correcting inventorship	STATEMENT_FROM_ADDED_INVENTOR.pdf	130682	no	1
			e06f388c17e70fb3d44e91f060f93703a70b631c		
Warnings:					
Information:					
5	Request under Rule 48 correcting inventorship	STATEMENT_FROM_CURRENT_INVENTOR.pdf	389768	no	1
			71744b6b26c31f6075fb77f072c1ab008a2d1294		
Warnings:					
Information:					
6	Fee Worksheet (SB06)	fee-info.pdf	38280	no	2
			5165f113da5742ad17d2bc04f3e743a5a854fc6		
Warnings:					
Information:					

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

New Applications Under 35 U.S.C. 111

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

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

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New International Application Filed with the USPTO as a Receiving Office

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PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT7054760

SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	ASSIGNMENT	
CONVEYING PARTY DATA		
	Name	Execution Date
	JOHN C. HAAGER	11/15/2021
RECEIVING PARTY DATA		
Name:	TOPIA TECHNOLOGY, INC.	
Street Address:	1927 DOCK STREET	
City:	TACOMA	
State/Country:	WASHINGTON	
Postal Code:	98402	
PROPERTY NUMBERS Total: 6		
Property Type	Number	
Patent Number:	9143561	
Patent Number:	10067942	
Patent Number:	10289607	
Patent Number:	10642787	
Patent Number:	10754823	
Patent Number:	11003622	
CORRESPONDENCE DATA		
Fax Number:	(202)293-7860	
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i>		
Phone:	2022937060	
Email:	mcabrera@sughrue.com	
Correspondent Name:	SUGHRUE MION PLLC	
Address Line 1:	2000 PENNSYLVANIA AVENUE NW	
Address Line 2:	SUITE 900	
Address Line 4:	WASHINGTON, D.C. 20006	
ATTORNEY DOCKET NUMBER:	030221	
NAME OF SUBMITTER:	MILLY CABRERA	
SIGNATURE:	/Milly Cabrera/	
DATE SIGNED:	12/03/2021	
This document serves as an Oath/Declaration (37 CFR 1.63).		

Total Attachments: 6

source=9,143,561_Executed Assignment#page1.tif
source=10,067,942_Executed Assignment#page1.tif
source=10,289,607_Executed Assignment#page1.tif
source=10,642,787_Executed Assignment#page1.tif
source=10,754,823_Executed Assignment#page1.tif
source=11,003,622_Executed Assignment#page1.tif

Assignment

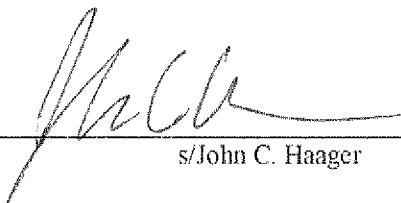
Whereas, I, John C. Haager, hereinafter called assignor, have invented certain improvements in ARCHITECTURE FOR MANAGEMENT OF DIGITAL FILES ACROSS DISTRIBUTED NETWORK and executed an application for Letters Patent of the United States of America therefor; (Application number 12/267,852 (now U.S. Patent 9,143,561)) and Confirmation number 7024, filed November 10, 2008); and

Whereas, TOPIA TECHNOLOGY, INC. of 1927 Dock Street, Tacoma, WA 98402, (assignee), desires to acquire the entire right, title, and interest in the application and invention, and to any United States patents to be obtained therefor;

Now therefore, for valuable consideration, receipt whereof is hereby acknowledged,

I, the above named assignor, hereby sell, assign and transfer to the above named assignee, its successors and assigns, the entire right, title and interest in the application and the invention disclosed therein for the United States of America, including all divisions, and continuations thereof, and all Letters Patent of the United States that may be granted thereon, and all reissues thereof, including the right to claim priority under 35 U.S.C. §119 and the right to sue for past damages, and I request the Director of the U.S. Patent and Trademark Office to issue any Letters Patent granted upon the invention set forth in the application to the assignee, its successors and assigns; and I will execute without further consideration all papers deemed necessary by the assignee in connection with the United States application when called upon to do so by the assignee.

Date:

 11/15/2021

s/John C. Haager

(Legalization not required for recording but is prima facie evidence of execution under 35 U.S.C. §261)

Assignment

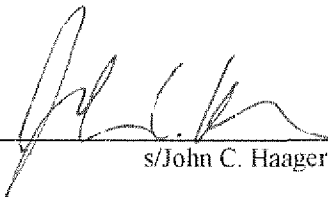
Whereas, I, John C. Haager, hereinafter called assignor, have invented certain improvements in ARCHITECTURE FOR MANAGEMENT OF DIGITAL FILES ACROSS DISTRIBUTED NETWORK and executed an application for Letters Patent of the United States of America therefor; (Application number 14/860,289 (now U.S. Patent 10,067,942)) and Confirmation number 3426, filed September 21, 2015); and

Whereas, TOPIA TECHNOLOGY, INC. of 1927 Dock Street, Tacoma, WA 98402, (assignee), desires to acquire the entire right, title, and interest in the application and invention, and to any United States patents to be obtained therefor;

Now therefore, for valuable consideration, receipt whereof is hereby acknowledged,

I, the above named assignor, hereby sell, assign and transfer to the above named assignee, its successors and assigns, the entire right, title and interest in the application and the invention disclosed therein for the United States of America, including all divisions, and continuations thereof, and all Letters Patent of the United States that may be granted thereon, and all reissues thereof, including the right to claim priority under 35 U.S.C. §119 and the right to sue for past damages, and I request the Director of the U.S. Patent and Trademark Office to issue any Letters Patent granted upon the invention set forth in the application to the assignee, its successors and assigns; and I will execute without further consideration all papers deemed necessary by the assignee in connection with the United States application when called upon to do so by the assignee.

Date:

 11/15/2021

s/John C. Haager

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Assignment

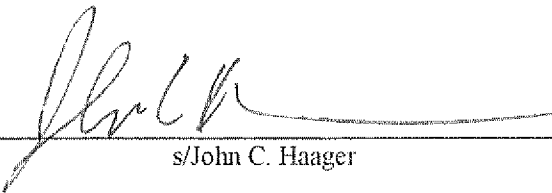
Whereas, I, John C. Haager, hereinafter called assignor, have invented certain improvements in ARCHITECTURE FOR MANAGEMENT OF DIGITAL FILES ACROSS DISTRIBUTED NETWORK and executed an application for Letters Patent of the United States of America therefor; (Application number 16/017,348 (now U.S. Patent 10,289,607)) and Confirmation number 3719, filed June 25, 2018); and

Whereas, TOPIA TECHNOLOGY, INC. of 1927 Dock Street, Tacoma, WA 98402, (assignee), desires to acquire the entire right, title, and interest in the application and invention, and to any United States patents to be obtained therefor;

Now therefore, for valuable consideration, receipt whereof is hereby acknowledged,

I, the above named assignor, hereby sell, assign and transfer to the above named assignee, its successors and assigns, the entire right, title and interest in the application and the invention disclosed therein for the United States of America, including all divisions, and continuations thereof, and all Letters Patent of the United States that may be granted thereon, and all reissues thereof, including the right to claim priority under 35 U.S.C. §119 and the right to sue for past damages, and I request the Director of the U.S. Patent and Trademark Office to issue any Letters Patent granted upon the invention set forth in the application to the assignee, its successors and assigns; and I will execute without further consideration all papers deemed necessary by the assignee in connection with the United States application when called upon to do so by the assignee.

Date:

 11/15/2021

s/John C. Haager

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Assignment

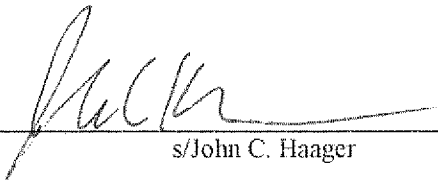
Whereas, I, John C. Haager, hereinafter called assignor, have invented certain improvements in PRE-FILE-TRANSFER UPDATE BASED ON PRIORITIZED METADATA and executed an application for Letters Patent of the United States of America therefor; (Application number 16/750,399 (now U.S. Patent 10,642,787)) and Confirmation number 9316, filed January 23, 2020); and

Whereas, TOPIA TECHNOLOGY, INC. of 1927 Dock Street, Tacoma, WA 98402, (assignee), desires to acquire the entire right, title, and interest in the application and invention, and to any United States patents to be obtained therefor;

Now therefore, for valuable consideration, receipt whereof is hereby acknowledged,

I, the above named assignor, hereby sell, assign and transfer to the above named assignee, its successors and assigns, the entire right, title and interest in the application and the invention disclosed therein for the United States of America, including all divisions, and continuations thereof, and all Letters Patent of the United States that may be granted thereon, and all reissues thereof, including the right to claim priority under 35 U.S.C. §119 and the right to sue for past damages, and I request the Director of the U.S. Patent and Trademark Office to issue any Letters Patent granted upon the invention set forth in the application to the assignee, its successors and assigns; and I will execute without further consideration all papers deemed necessary by the assignee in connection with the United States application when called upon to do so by the assignee.

Date:

 11/15/2021

s/John C. Haager

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Assignment

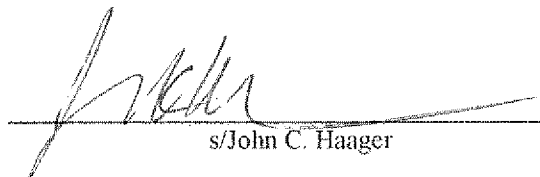
Whereas, I, John C. Haager, hereinafter called assignor, have invented certain improvements in PRE-FILE-TRANSFER AVAILABILITY INDICATION BASED ON PRIORITIZED METADATA and executed an application for Letters Patent of the United States of America therefor; (Application number 16/750,435 (now U.S. Patent 10,754,823)) and Confirmation number 2793, filed January 23, 2020); and

Whereas, TOPIA TECHNOLOGY, INC. of 1927 Dock Street, Tacoma, WA 98402, (assignee), desires to acquire the entire right, title, and interest in the application and invention, and to any United States patents to be obtained therefor;

Now therefore, for valuable consideration, receipt whereof is hereby acknowledged,

I, the above named assignor, hereby sell, assign and transfer to the above named assignee, its successors and assigns, the entire right, title and interest in the application and the invention disclosed therein for the United States of America, including all divisions, and continuations thereof, and all Letters Patent of the United States that may be granted thereon, and all reissues thereof, including the right to claim priority under 35 U.S.C. §119 and the right to sue for past damages, and I request the Director of the U.S. Patent and Trademark Office to issue any Letters Patent granted upon the invention set forth in the application to the assignee, its successors and assigns; and I will execute without further consideration all papers deemed necessary by the assignee in connection with the United States application when called upon to do so by the assignee.

Date:

 11/15/2021
s/John C. Haager

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Assignment

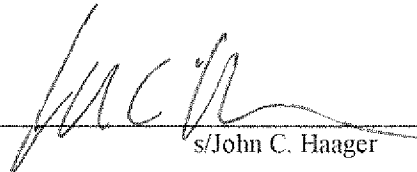
Whereas, I, John C. Haager, hereinafter called assignor, have invented certain improvements in ARCHITECTURE FOR MANAGEMENT OF DIGITAL FILES ACROSS DISTRIBUTED NETWORK and executed an application for Letters Patent of the United States of America therefor; (Application number 16/361,641 (now U.S. Patent 11,003,622)) and Confirmation number 7093, filed March 22, 2019); and

Whereas, TOPIA TECHNOLOGY, INC. of 1927 Dock Street, Tacoma, WA 98402, (assignee), desires to acquire the entire right, title, and interest in the application and invention, and to any United States patents to be obtained therefor;

Now therefore, for valuable consideration, receipt whereof is hereby acknowledged,

I, the above named assignor, hereby sell, assign and transfer to the above named assignee, its successors and assigns, the entire right, title and interest in the application and the invention disclosed therein for the United States of America, including all divisions, and continuations thereof, and all Letters Patent of the United States that may be granted thereon, and all reissues thereof, including the right to claim priority under 35 U.S.C. §119 and the right to sue for past damages, and I request the Director of the U.S. Patent and Trademark Office to issue any Letters Patent granted upon the invention set forth in the application to the assignee, its successors and assigns; and I will execute without further consideration all papers deemed necessary by the assignee in connection with the United States application when called upon to do so by the assignee.

Date:


s/John C. Haager

11/15/2021

(Legalization not required for recording but is prima facie evidence of execution under 35 U.S.C. §261)



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
16/750,399	01/23/2020	Michael R. MANZANO	023027-0509067

CONFIRMATION NO. 9316

909
Pillsbury Winthrop Shaw Pittman, LLP
PO Box 10500
McLean, VA 22102

PUBLICATION NOTICE



OC000000117166789

Title:PRE-FILE-TRANSFER UPDATE BASED ON PRIORITIZED METADATA

Publication No.US-2020-0159694-A1

Publication Date:05/21/2020

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 Public Records Division. The Public Records Division can be reached by telephone at (571) 272-3150 or (800) 972-6382, by facsimile at (571) 273-3250, by mail addressed to the United States Patent and Trademark Office, Public Records Division, Alexandria, VA 22313-1450 or via the Internet.

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

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

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



UNITED STATES PATENT AND TRADEMARK OFFICE

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

APPLICATION NO.	ISSUE DATE	PATENT NO.	ATTORNEY DOCKET NO.	CONFIRMATION NO.
16/750,399	05/05/2020	10642787	023027-0509067	9316

909 7590 04/15/2020
Pillsbury Winthrop Shaw Pittman, LLP
PO Box 10500
McLean, VA 22102

ISSUE NOTIFICATION

The projected patent number and issue date are specified above.

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b) (application filed on or after May 29, 2000)

The Patent Term Adjustment is 0 day(s). Any patent to issue from the above-identified application will include an indication of the adjustment on the front page.

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (<http://pair.uspto.gov>).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Application Assistance Unit (AAU) of the Office of Data Management (ODM) at (571)-272-4200.

APPLICANT(s) (Please see PAIR WEB site <http://pair.uspto.gov> for additional applicants):

Michael R. MANZANO, Seattle, WA;
TOPIA TECHNOLOGY, INC., Tacoma, WA;

The United States represents the largest, most dynamic marketplace in the world and is an unparalleled location for business investment, innovation, and commercialization of new technologies. The USA offers tremendous resources and advantages for those who invest and manufacture goods here. Through SelectUSA, our nation works to encourage and facilitate business investment. To learn more about why the USA is the best country in the world to develop technology, manufacture products, and grow your business, visit SelectUSA.gov.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), by mail or fax, or via EFS-Web.

By mail, send to: Mail Stop ISSUE FEE
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

By fax, send to: (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

909 7590 03/27/2020
Pillsbury Winthrop Shaw Pittman, LLP
PO Box 10500
McLean, VA 22102

Certificate of Mailing or Transmission

I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being transmitted to the USPTO via EFS-Web or by facsimile to (571) 273-2885, on the date below.

(Typed or printed name)
(Signature)
(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
16/750,399	01/23/2020	Michael R. MANZANO	023027-0509067	9316

TITLE OF INVENTION: PRE-FILE-TRANSFER UPDATE BASED ON PRIORITIZED METADATA

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	SMALL	\$500	\$0.00	\$0.00	\$500	06/29/2020

EXAMINER	ART UNIT	CLASS-SUBCLASS
CHANNAVAJJALA, SRIRAMA T	2157	707-654000

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).

☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.

☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-09 or more recent) attached. Use of a Customer Number is required.

2. For printing on the patent front page, list

(1) The names of up to 3 registered patent attorneys or agents OR, alternatively,

(2) The name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.

1 Pillsbury Winthrop Shaw Pittman LLP

2

3

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document must have been previously recorded, or filed for recordation, as set forth in 37 CFR 3.11 and 37 CFR 3.81(a). Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE

(B) RESIDENCE: (CITY and STATE OR COUNTRY)

TOPIA TECHNOLOGY, INC.

TACOMA, WASHINGTON

Please check the appropriate assignee category or categories (will not be printed on the patent): ☐ Individual ☒ Corporation or other private group entity ☐ Government

4a. Fees submitted: ☒ Issue Fee ☐ Publication Fee (if required) ☐ Advance Order - # of Copies

4b. Method of Payment: (Please first reapply any previously paid fee shown above)

☒ Electronic Payment via EFS-Web ☐ Enclosed check ☐ Non-electronic payment by credit card (Attach form PTO-2038)

☒ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment to Deposit Account No. 033975

5. Change in Entity Status (from status indicated above)

☐ Applicant certifying micro entity status. See 37 CFR 1.29

☐ Applicant asserting small entity status. See 37 CFR 1.27

☐ Applicant changing to regular undiscounted fee status.

NOTE: Absent a valid certification of Micro Entity Status (see forms PTO/SB/15A and 15B), issue fee payment in the micro entity amount will not be accepted at the risk of application abandonment.

NOTE: If the application was previously under micro entity status, checking this box will be taken to be a notification of loss of entitlement to micro entity status.

NOTE: Checking this box will be taken to be a notification of loss of entitlement to small or micro entity status, as applicable.

NOTE: This form must be signed in accordance with 37 CFR 1.31 and 1.33. See 37 CFR 1.4 for signature requirements and certifications.

Authorized Signature /Ngai B. Zhang/

Date March 31, 2020

Typed or printed name Ngai B. Zhang

Registration No. 65,473

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

IN RE PATENT
APPLICATION OF: Michael R. MANZANO
SERIAL No.: **16/750,399**
ATTORNEY DOCKET No.: 023027-0509067
FILING DATE: January 23, 2020
CONFIRMATION NO. 9316
ART UNIT: 2157
EXAMINER: Srirama T. CHANNAVAJALA
FOR: PRE-FILE-TRANSFER UPDATE BASED ON PRIORITIZED METADATA

COMMENTS ON EXAMINER'S STATEMENT OF REASONS FOR ALLOWANCE

Mail Stop Issue Fee

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

Dear Commissioner:

In reply to the Notice of Allowability dated March 27, 2019, consideration of the following comments is respectfully requested.

Applicant respectfully submits that the subject matter of the allowed claims are patentable for their respective recitations of claimed combinations as a whole, without any particular criticality or distinguishing feature being attributable to any one or more of such features, and without any narrowing interpretation being imposed on any of such features. The Applicant respectfully submits that the dependent claims are allowable not only for their dependence on the allowed independent claims, but also for the additional subject matter recited in each of those dependent claims.

Respectfully submitted,
PILLSBURY WINTHROP SHAW PITTMAN LLP

/Ngai B. Zhang/

Ngai B. Zhang
Reg. No. 65,473
Tel. No. (703) 770-7532
Fax No. (703) 770-7901

Date: March 31, 2020
P.O. Box 10500
McLean, VA 22102
(703) 770-7900

Electronic Patent Application Fee Transmittal				
Application Number:		16750399		
Filing Date:		23-Jan-2020		
Title of Invention:		PRE-FILE-TRANSFER UPDATE BASED ON PRIORITIZED METADATA		
First Named Inventor/Applicant Name:		Michael R. MANZANO		
Filer:		Ngai Bing Zhang/Maggie Barham		
Attorney Docket Number:		023027-0509067		
Filed as Small Entity				
Filing Fees for Utility under 35 USC 111(a)				
Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
UTILITY APPL ISSUE FEE	2501	1	500	500

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Extension-of-Time:				
Miscellaneous:				
Total in USD (\$)				500

Electronic Acknowledgement Receipt

EFS ID:	39017758
Application Number:	16750399
International Application Number:	
Confirmation Number:	9316
Title of Invention:	PRE-FILE-TRANSFER UPDATE BASED ON PRIORITIZED METADATA
First Named Inventor/Applicant Name:	Michael R. MANZANO
Customer Number:	909
Filer:	Ngai Bing Zhang/Maggie Barham
Filer Authorized By:	Ngai Bing Zhang
Attorney Docket Number:	023027-0509067
Receipt Date:	31-MAR-2020
Filing Date:	23-JAN-2020
Time Stamp:	11:39:34
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	DA
Payment was successfully received in RAM	\$500
RAM confirmation Number	E20203UB39534802
Deposit Account	
Authorized User	

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

File Listing:					
Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Issue Fee Payment (PTO-85B)	023027-0509067_Issue_Fee.pdf	203277	no	1
			7fc2081bf9e330a27fd7b87f017e2d27d3e4e6e		
Warnings:					
Information:					
2	Post Allowance Communication - Incoming	023027-0509067_Comments.pdf	135692	no	1
			2bcf0e48f9ed21c51ecb79062093e2e0cdd07ff7		
Warnings:					
Information:					
3	Fee Worksheet (SB06)	fee-info.pdf	29948	no	2
			5fe65c69a1a4d7c905ee8f7f99f27347cd0b880a		
Warnings:					
Information:					
Total Files Size (in bytes):			368917		
<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>					



UNITED STATES PATENT AND TRADEMARK OFFICE

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

NOTICE OF ALLOWANCE AND FEE(S) DUE

909 7590 03/27/2020
Pillsbury Winthrop Shaw Pittman, LLP
PO Box 10500
McLean, VA 22102

EXAMINER	
CHANNAVAJALA, SRIRAMA T	
ART UNIT	PAPER NUMBER
2157	

DATE MAILED: 03/27/2020

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
16/750,399	01/23/2020	Michael R. MANZANO	023027-0509067	9316

TITLE OF INVENTION: PRE-FILE-TRANSFER UPDATE BASED ON PRIORITIZED METADATA

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	SMALL	\$500	\$0.00	\$0.00	\$500	06/29/2020

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the ENTITY STATUS shown above. If the ENTITY STATUS is shown as SMALL or MICRO, verify whether entitlement to that entity status still applies.

If the ENTITY STATUS is the same as shown above, pay the TOTAL FEE(S) DUE shown above.

If the ENTITY STATUS is changed from that shown above, on PART B - FEE(S) TRANSMITTAL, complete section number 5 titled "Change in Entity Status (from status indicated above)".

For purposes of this notice, small entity fees are 1/2 the amount of undiscounted fees, and micro entity fees are 1/2 the amount of small entity fees.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Maintenance fees are due in utility patents issuing on applications filed on or after Dec. 12, 1980. It is patentee's responsibility to ensure timely payment of maintenance fees when due. More information is available at www.uspto.gov/PatentMaintenanceFees.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), by mail or fax, or via EFS-Web.

By mail, send to: Mail Stop ISSUE FEE
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

By fax, send to: (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

909 7590 03/27/2020
Pillsbury Winthrop Shaw Pittman, LLP
PO Box 10500
McLean, VA 22102

Certificate of Mailing or Transmission

I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being transmitted to the USPTO via EFS-Web or by facsimile to (571) 273-2885, on the date below.

(Typed or printed name)
(Signature)
(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
16/750,399	01/23/2020	Michael R. MANZANO	023027-0509067	9316

TITLE OF INVENTION: PRE-FILE-TRANSFER UPDATE BASED ON PRIORITIZED METADATA

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	SMALL	\$500	\$0.00	\$0.00	\$500	06/29/2020

EXAMINER	ART UNIT	CLASS-SUBCLASS
CHANNAVAJJALA, SRIRAMA T	2157	707-654000

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).

☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.

☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-09 or more recent) attached. **Use of a Customer Number is required.**

2. For printing on the patent front page, list

(1) The names of up to 3 registered patent attorneys or agents OR, alternatively,

1 _____

(2) The name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.

2 _____

3 _____

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document must have been previously recorded, or filed for recordation, as set forth in 37 CFR 3.11 and 37 CFR 3.81(a). Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE

(B) RESIDENCE: (CITY and STATE OR COUNTRY)

Please check the appropriate assignee category or categories (will not be printed on the patent) : ☐ Individual ☐ Corporation or other private group entity ☐ Government

4a. Fees submitted: ☐ Issue Fee ☐ Publication Fee (if required) ☐ Advance Order - # of Copies _____

4b. Method of Payment: (Please first reapply any previously paid fee shown above)

☐ Electronic Payment via EFS-Web ☐ Enclosed check ☐ Non-electronic payment by credit card (Attach form PTO-2038)

☐ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment to Deposit Account No. _____

5. Change in Entity Status (from status indicated above)

☐ Applicant certifying micro entity status. See 37 CFR 1.29

☐ Applicant asserting small entity status. See 37 CFR 1.27

☐ Applicant changing to regular undiscounted fee status.

NOTE: Absent a valid certification of Micro Entity Status (see forms PTO/SB/15A and 15B), issue fee payment in the micro entity amount will not be accepted at the risk of application abandonment.

NOTE: If the application was previously under micro entity status, checking this box will be taken to be a notification of loss of entitlement to micro entity status.

NOTE: Checking this box will be taken to be a notification of loss of entitlement to small or micro entity status, as applicable.

NOTE: This form must be signed in accordance with 37 CFR 1.31 and 1.33. See 37 CFR 1.4 for signature requirements and certifications.

Authorized Signature _____

Date _____

Typed or printed name _____

Registration No. _____



UNITED STATES PATENT AND TRADEMARK OFFICE

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

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
16/750,399	01/23/2020	Michael R. MANZANO	023027-0509067	9316
909	7590	03/27/2020	EXAMINER	
Pillsbury Winthrop Shaw Pittman, LLP			CHANNAVAJJALA, SRIRAMA T	
PO Box 10500			ART UNIT	
McLean, VA 22102			PAPER NUMBER	
			2157	
DATE MAILED: 03/27/2020				

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b) (Applications filed on or after May 29, 2000)

The Office has discontinued providing a Patent Term Adjustment (PTA) calculation with the Notice of Allowance.

Section 1(h)(2) of the AIA Technical Corrections Act amended 35 U.S.C. 154(b)(3)(B)(i) to eliminate the requirement that the Office provide a patent term adjustment determination with the notice of allowance. See Revisions to Patent Term Adjustment, 78 Fed. Reg. 19416, 19417 (Apr. 1, 2013). Therefore, the Office is no longer providing an initial patent term adjustment determination with the notice of allowance. The Office will continue to provide a patent term adjustment determination with the Issue Notification Letter that is mailed to applicant approximately three weeks prior to the issue date of the patent, and will include the patent term adjustment on the patent. Any request for reconsideration of the patent term adjustment determination (or reinstatement of patent term adjustment) should follow the process outlined in 37 CFR 1.705.

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

OMB Clearance and PRA Burden Statement for PTOL-85 Part B

The Paperwork Reduction Act (PRA) of 1995 requires Federal agencies to obtain Office of Management and Budget approval before requesting most types of information from the public. When OMB approves an agency request to collect information from the public, OMB (i) provides a valid OMB Control Number and expiration date for the agency to display on the instrument that will be used to collect the information and (ii) requires the agency to inform the public about the OMB Control Number's legal significance in accordance with 5 CFR 1320.5(b).

The information collected by PTOL-85 Part B is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 30 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450. Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Privacy Act Statement

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

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

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

Notice of Allowability	Application No. 16/750,399	Applicant(s) MANZANO, Michael R.	
	Examiner Srirama T Channavajjala	Art Unit 2157	AIA (FITF) Status No

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

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 3/19/2020.
☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on ____.

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

3. ☒ The allowed claim(s) is/are See Continuation Sheet. As a result of the allowed claim(s), you may be eligible to benefit from the **Patent Prosecution Highway** program at a participating intellectual property office for the corresponding application. For more information, please see http://www.uspto.gov/patents/init_events/pph/index.jsp or send an inquiry to **PPHfeedback@uspto.gov**.

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

Certified copies:

a) ☐ All b) ☐ Some *c) ☐ None of the:

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

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

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

* Certified copies not received: ____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date ____.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. <input type="checkbox"/> Notice of References Cited (PTO-892) 2. <input type="checkbox"/> Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date ____. 3. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit of Biological Material ____. 4. <input checked="" type="checkbox"/> Interview Summary (PTO-413), Paper No./Mail Date <u>3/23/2020</u> .	5. <input type="checkbox"/> Examiner's Amendment/Comment 6. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance 7. <input type="checkbox"/> Other _____.
--	--

/Srirama Channavajjala/
Primary Examiner, Art Unit 2157

Continuation of 3. The allowed claim(s) is/are: 1,3-9,11-15 and 17-20

Notice of Pre-AIA or AIA Status

The present application is being examined under the pre-AIA first to invent provisions.

In the event the determination of the status of the application as subject to AIA 35 U.S.C. 102 and 103 (or as subject to pre-AIA 35 U.S.C. 102 and 103) is incorrect, any correction of the statutory basis for the rejection will not be considered a new ground of rejection if the prior art relied upon, and the rationale supporting the rejection, would be the same under either status.

This application is a CON of 16/361,641 filed on 03/22/2019 which is a CON of 16/017,348 filed on 06/25/2018 is now US PAT 10289607, which is a CON of 14/860,289 filed on 09/21/2015 is now US PAT 10067942 which is a CON 12/267,852 filed on 11/10/2008 is now US PAT 9143561 which claims benefit of US Provisional application 60/986,896 filed on 11/09/2007

TRACK 1 request granted on 2/14/2020.

DETAILED ACTION

1. Claims 1,3-9,11-15,17-20 are allowed in this application.
2. Examiner acknowledges applicant's amendment and response filed on 3/19/2020.

Drawings

3. The Drawings filed on 3/22/2019 are acceptable for examination purpose.

Double Patenting

1. Terminal disclaimer approved filed on 3/20/2020.

Reasons for Allowance

Claims 1,3-9,11-15,17-20 (re-numbered as 1-17) are allowed.

The following is an examiner's statement of reasons:

In view of applicant's amendment, remarks filed on 3/19/2020, the prior art US Pub.No. 2007/0180084 does not disclose, make obvious, or otherwise suggest the structure of applicant's

"wherein at least one of the server system or the first client device comprises a priority assignment configuration to assign greater priority to metadata associated with files than priority assigned to the files such that at least one of the server system or the first client device assigns the first priority to the first metadata and the second priority to the copy of the first file based on the priority assignment configuration".

These features, together with the other limitations of the independent claims are novel and non-obvious over the prior art of record. The dependent claims 3-8, 11-14,17-20 being definite, enabled by the specification, and further limiting to the independent claims are also allowable.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Srirama Channavajjala whose telephone number is 571-272-4108. The examiner can normally be reached on Monday-Friday from 8:00 AM to 5:30 PM Eastern Time.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Trujillo James, can be reached on (571) 272- 3677. The fax phone numbers for the organization where the application or proceeding is assigned is 571-273-8300. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free)

/Srirama Channavajjala/
Primary Examiner, Art Unit 2157.

<i>Examiner-Initiated Interview Summary</i>	Application No. 16/750,399	Applicant(s) MANZANO, Michael R.	
	Examiner Srirama T Channavajjala	Art Unit 2157	AIA (FITF) Status No

All participants (applicant, applicant's representative, PTO personnel):

(1) Srirama T. Channavajjala. (3) ____.

(2) Ngai B. Zhang, Registration No. 65,473. (4) ____.

Date of Interview: 23 March 2020.

Type: ☒ Telephonic ☐ Video Conference
☐ Personal [copy given to: ☐ applicant ☐ applicant's representative]

Exhibit shown or demonstration conducted: ☐ Yes ☒ No.
If Yes, brief description: ____.

Issues Discussed ☐ 101 ☐ 112 ☐ 102 ☐ 103 ☐ Others
(For each of the checked box(es) above, please describe below the issue and detailed description of the discussion)

Claim(s) discussed: ____.

Identification of prior art discussed: ____.

Substance of Interview
(For each issue discussed, provide a detailed description and indicate if agreement was reached. Some topics may include: identification or clarification of a reference or a portion thereof, claim interpretation, proposed amendments, arguments of any applied references etc...)


Discussed applicant's amendment to claim 1,9,15, and remarks filed on 3/19/2020.
Examiner acknowledges applicant's terminal disclaimer approved on 3/20/2020..

Applicant recordation instructions: It is not necessary for applicant to provide a separate record of the substance of interview.

Examiner recordation instructions: Examiners must summarize the substance of any interview of record. A complete and proper recordation of the substance of an interview should include the items listed in MPEP 713.04 for complete and proper recordation including the identification of the general thrust of each argument or issue discussed, a general indication of any other pertinent matters discussed regarding patentability and the general results or outcome of the interview, to include an indication as to whether or not agreement was reached on the issues raised.


☐ Attachment

/Srirama Channavajjala/ Primary Examiner, Art Unit 2157	
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<i>Index of Claims</i> 	Application/Control No. 16/750,399	Applicant(s)/Patent Under Reexamination MANZANO, Michael R.
	Examiner Srirama T Channavajjala	Art Unit 2157

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

CLAIMS										
<input type="checkbox"/> Claims renumbered in the same order as presented by applicant <input type="checkbox"/> CPA <input type="checkbox"/> T.D. <input type="checkbox"/> R.1.47										
CLAIM		DATE								
Final	Original	03/03/2020	03/23/2020							
1	1	✓	=							
	2	✓	-							
2	3	✓	=							
3	4	✓	=							
4	5	✓	=							
5	6	✓	=							
6	7	✓	=							
7	8	✓	=							
8	9	✓	=							
	10	✓	-							
9	11	✓	=							
10	12	✓	=							
11	13	✓	=							
12	14	✓	=							
13	15	✓	=							
	16	✓	-							
14	17	✓	=							
15	18	✓	=							
16	19	✓	=							
17	20	✓	=							

<i>Search Notes</i> 	Application/Control No. 16/750,399	Applicant(s)/Patent Under Reexamination MANZANO, Michael R.
	Examiner Srirama T Channavajjala	Art Unit 2157


CPC - Searched*		
Symbol	Date	Examiner
G06F 16/178;27;128;182;1844;176;10;1873;13;152;164	03/03/2020	sc
G06F 16/178;27;128;182;1844;176;10;1873;13;152;164	03/20/2020	sc

CPC Combination Sets - Searched*		
Symbol	Date	Examiner

US Classification - Searched*			
Class	Subclass	Date	Examiner

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

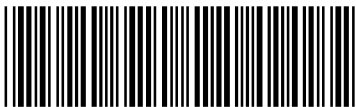
/Srirama Channavajjala/ Primary Examiner, Art Unit 2157	
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<i>Search Notes</i> 	Application/Control No. 16/750,399	Applicant(s)/Patent Under Reexamination MANZANO, Michael R.
	Examiner Srirama T Channavajjala	Art Unit 2157

Search Notes		
Search Notes	Date	Examiner
Inventor searched	03/03/2020	sc
PLUS search	03/03/2020	sc
google search attached	03/03/2020	sc
IP.COM search attached	03/03/2020	sc
EAST search attached	03/03/2020	sc
PLUS search	03/20/2020	sc
google search attached	03/20/2020	sc
IP.COM search attached	03/20/2020	sc
EAST search attached	03/20/2020	sc
EAST interference search attached	03/20/2020	sc
EAST search attached	03/23/2020	sc

Interference Search			
US Class/CPC Symbol	US Subclass/CPC Group	Date	Examiner
	G06F 16/178;27;128;182;1844;176;10;1873;13;152;164	03/20/2020	sc


/Srirama Channavajjala/ Primary Examiner, Art Unit 2157	
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Issue Classification 	Application/Control No. 16/750,399	Applicant(s)/Patent Under Reexamination MANZANO, Michael R.	
	Examiner Srirama T Channavajjala	Art Unit 2157	

CPC						
Symbol					Type	Version
G06F	/	16	/	122	F	2019-01-01
H04L	/	67	/	1095	I	2013-01-01
G06F	/	16	/	178	I	2019-01-01
G06F	/	16	/	176	I	2019-01-01
G06F	/	15	/	16	I	2013-01-01
G06F	/	16	/	14	I	2019-01-01
G06F	/	16	/	13	I	2019-01-01
G06F	/	16	/	00	I	2019-01-01
G06F	/	16	/	128	I	2019-01-01

CPC Combination Sets					
Symbol				Type	Set
	/		/		

NONE		Total Claims Allowed:	
(Assistant Examiner)	(Date)	17	
/Srirama Channavajjala/ Primary Examiner, Art Unit 2157	23 March 2020	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	2 and 3

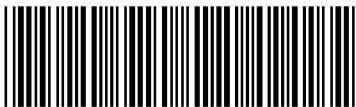
Issue Classification 	Application/Control No. 16/750,399	Applicant(s)/Patent Under Reexamination MANZANO, Michael R.
	Examiner Srirama T Channavajjala	Art Unit 2157

INTERNATIONAL CLASSIFICATION			
CLAIMED			
G06F	/	16	/ 00
NON-CLAIMED			
	/		/

US ORIGINAL CLASSIFICATION	
CLASS	SUBCLASS

CROSS REFERENCES(S)						
CLASS	SUBCLASS (ONE SUBCLASS PER BLOCK)					

NONE		Total Claims Allowed:	
(Assistant Examiner)	(Date)	17	
/Srirama Channavajjala/ Primary Examiner, Art Unit 2157	23 March 2020	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	2 and 3

Issue Classification 	Application/Control No. 16/750,399	Applicant(s)/Patent Under Reexamination MANZANO, Michael R.
	Examiner Srirama T Channavajjala	Art Unit 2157

<input type="checkbox"/> Claims renumbered in the same order as presented by applicant <input type="checkbox"/> CPA <input checked="" type="checkbox"/> T.D. <input type="checkbox"/> R.1.47															
CLAIMS															
Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original
1	1	10	12												
2	3	11	13												
3	4	12	14												
4	5	13	15												
5	6	14	17												
6	7	15	18												
7	8	16	19												
8	9	17	20												
9	11														

NONE (Assistant Examiner) _____ (Date) _____		Total Claims Allowed: 17	
/Srirama Channavajjala/ Primary Examiner, Art Unit 2157 (Primary Examiner) _____ (Date) 23 March 2020		O.G. Print Claim(s) 1	O.G. Print Figure 2 and 3

758,473 records

CURRENT ASSIGNMENT: FBI REPORTING TO
ONR02281599 (CHINA APPLICATIONS) (28-OCT-2015)

CURRENT ASSIGNMENT DENGBU ELECTRIC CORP
KRISS007-0800A : KOREA APPLICATIONS (05-MAY-1988)

CURRENT ASSIGNEES: TELEFON AB LSA ERICSSON; NUS,
US906589; US PATENTS; 23 JUN 2015

CURRENT ASSIGNEES: TELEFON AB LM ERICSSON PUBL
US20026763 / US PATENTS / 20-MAR-2012

CONFIDENTIAL ASSIGNMENT DELL EMC
US00067561 | US PATENTS | 14-JUN-2015

CURRENT ASSIGNEES: ERICSSON AB
TW6783682 | TAIWAN PATENTS | 01-NOV-2019

CURRENT ASSIGNEES: INTL BUSINESS MACHINES CORP
 18252640 SA ; GREAT BRITAIN APPLICATIONS ; 27-JAN-2016

CURRENT ASSIGNEES: SHARP CORP
R02001209571A : JAPAN APPLICATIONS : 03-AUG-2000

CURRENT ASSIGNEE: DELL EMC
US20190370126 / US APPLICATIONS / 05-DEC-2019

CURRENT ASSIGNEES: ERICSSON TELEVISION INC.
EP2982720B1 | EP2 PATENTS | 70-486-2019

CURRENT ASSIGNEES: DELL EMC
 852080394049 | US APPLICATIONS | 27-OCT-2016

CURRENT ASSIGNEE: DELL EMC
US PATENTS: 105 PATENTS (10-OCT-2019)

Downloaded resources according to a priority is disclosed. A feed document is retrieved. A feed document represents time-variant chunks of published content. The feed document is parsed to extract one or more

	<p>references to a downloadable resource. A downloadable resource is a type of content...</p> <p>CURRENT ASSIGNEES: ADOBE INC. US8145831 US PATENTS 27-MAR-2012</p>	***~
28	<p>Client management of download sequence of orchestrated content</p> <p>Downloading resources according to a priority is disclosed. A feed document is retrieved. A feed document represents time-variant chunks of published content. The feed document is parsed to extract one or more references to a downloadable resource. A downloadable resource is a type of content...</p> <p>CURRENT ASSIGNEES: ADOBE INC. US2010258660 US APPLICATIONS 29-SEP-2011</p>	***~
29	<p>Methods, apparatus, and computer program products for communicating content files based on destination priority</p> <p>A method for communicating content files based on destination priority includes processing a content file to determine a plurality of destination sites to which the content file is to be transmitted, assigning priority levels to the plurality of destination sites, allocating a plurality of bandwidth...</p> <p>CURRENT ASSIGNEES: ERICSSON TELEVISION INC. CN105237876A CHINA APPLICATIONS 10-JAN-2018</p>	*~***
30	<p>Method and apparatus for priority transmission and display of key areas of image data</p> <p>A method and an apparatus for selecting, prioritizing, saving, and receiving image data are disclosed. Portions of an image (127) can be selected and the selected portions assigned priorities (220) using preferred embodiments of the present invention. The prioritized image portions can then be saved...</p> <p>CURRENT ASSIGNEES: HITI BUSINESS MACHINES CORP. WO2006025226A1 WPO APPLICATIONS 04-MAY-2006</p>	***~
31	<p>Apparatus for priority transmission and display of key areas of image data</p> <p>An apparatus for selecting, prioritizing, saving, and receiving image data. Portions of an image can be selected and the selected portions assigned priorities. The prioritized image portions can then be saved in a prioritized graphics file. The image can be saved in any graphics file format. When a...</p> <p>CURRENT ASSIGNEES: FACEBOOK INC. US7486322 US PATENTS 10-FEB-2009</p>	***~
32	<p>Data recorder and data recording program</p> <p>The priority of data is updated. A priority changing unit 104b specifies one piece of data, assigns priority information to the specified specific data, and assigns it to non-specific data that is data other than the specific data recorded in the storage medium. It is determined whether or not the...</p> <p>CURRENT ASSIGNEES: NIKON CORP. JP2008283425A JAPAN APPLICATIONS 30-OCT-2008</p>	***~
33	<p>Apparatus for priority transmission and display of key areas of image data</p> <p>An apparatus for selecting, prioritizing, saving, and receiving image data. Portions of an image can be selected and the selected portions assigned priorities. The prioritized image portions can then be saved in a prioritized graphics file. The image can be saved in any graphics file format. When a...</p> <p>CURRENT ASSIGNEES: FACEBOOK INC. US20080071877 US APPLICATIONS 20-MAR-2008</p>	***~
34	<p>Method and apparatus for priority transmission and display of key areas of image data</p> <p>The present invention discloses a method and apparatus for selecting, prioritizing, storing, and receiving image data. Using the preferred embodiments of the present invention, portions of image 127 are selected, and preferences 220 are assigned to the selected portions. The prioritized image...</p> <p>CURRENT ASSIGNEES: FACEBOOK INC. KR20080075486A KOREA APPLICATIONS 08-APR-2001</p>	*~***
35	<p>Method for priority transmission and display of key areas of image data</p> <p>A method and an apparatus for selecting, prioritizing, saving, and receiving image data are disclosed. Portions of an image can be selected and the selected portions assigned priorities using preferred embodiments of the present invention. The prioritized image portions can then be saved in a...</p> <p>CURRENT ASSIGNEES: FACEBOOK INC. US7355608 US PATENTS 08-APR-2008</p>	***~
36	<p>Automatic rules-based device synchronization</p> <p>Automatic rules-based synchronization of digital files on a source device and a target device coupled to it. A source computer executes a synchronization engine for managing transfer of files from a source database to a target device coupled to the computer as a function of a defined storage...</p> <p>CURRENT ASSIGNEES: MICROSOFT TECH LICENSING LLC US7647346 US PATENTS 12-JAN-2010</p>	*~***~
37	<p>Image management apparatus and control method therefor, and program</p> <p>An object of the present invention is to preferentially display an image that is important as an index for a user when searching, and manage an image file so that the image can be displayed in a highly visible layout. Priorities are assigned to a plurality of images. Then, the images are laid out...</p> <p>CURRENT ASSIGNEES: CANON INC. JP2006080795A JAPAN APPLICATIONS 16-APR-2006</p>	*~***~
38	<p>Discardable files</p> <p>Files to be stored or to be stored on the storage device are marked as non-discardable or discardable in the file system associated with the storage device. Each discardable file has a discarding priority associated with it. The publisher file is only allowed to be stored on the storage device if the...</p> <p>CURRENT ASSIGNEES: SAMSUNG LTD. KR20110182327A KOREA APPLICATIONS 18-SEP-2011</p>	***~
39	<p>Automatic rules-based device synchronization</p> <p>Automatic rules-based synchronization of digital files on a source device and a target device coupled to it. A source computer executes a synchronization engine for managing transfer of files from a source database to a target device coupled to the computer as a function of a defined storage...</p> <p>CURRENT ASSIGNEES: MICROSOFT TECH LICENSING LLC US20080234626 US APPLICATIONS 03-OCT-2008</p>	***~
40	<p>Method and device for assignment to frames</p> <p>[57] (Summary) (PRIORITY) To provide a method and apparatus for fairly allocating a plurality of targets to a plurality of frames, SOLUTION: The number of registered subjects is set and stored in a recruitment subject information file 4, and priorities are set for a plurality of desired subjects for...</p>	

Result of:

PREV NEXT

20. Techniques to automatically update software applications

Techniques to automatically update software applications are described. An apparatus may comprise a processor and a memory. The memory may store an update component that when executed by the processor is operative to manage updates for an application program. The update component may comprise an...

CURRENT ASSIGNEES: MICROSOFT TECH LICENSING LLC
US2910289490 | US APPLICATIONS | 24-NOV-2011

□ □ □ □ □

32. Apparatus and method for dynamic streaming of multimedia files

10 An apparatus and method for dynamic streaming of multimedia files are disclosed. According to one embodiment, a computer-implemented method comprises receiving a list of multimedia files meeting one or more
15 criteria. One or more priority processes are applied to the list. The priority processes...

CURRENT ASSIGNEES: OPEN INVENTION NETWORK LLC
US20080040713 / US APPLICATION# 11-858,2008

— — — — —

³⁷ Apparatus and method for dynamic streaming of multimedia files

100 An apparatus and method for dynamic streaming of multimedia files are disclosed. According to one embodiment, a computer implemented method comprises receiving a list of multimedia files meeting one or more criteria. One or more priority processes are applied to the list. The priority processes...

CURRENT ASSIGNEES: OPEN INVENTION NETWORK LLC
US9540259 / US PATENTS / 10-JAN-2017

[illegible]

38. A kind of method and system of multi-source software upgrading

100 The present invention relates to a kind of method and system of multi-source software upgrading, its system is comprised the following steps, S1, is that client arranges many web servers ; S2, deployment is provided with multiple network server access addresses of priority tag on the client, and ..

CURRENT ASSIGNEES: HUBEI GUANGGUOTIANXIA MEDIA CO. LTD.
CNP055336258 | CHINA 420000310000107-89-1-2067

 $\frac{1}{2}, \frac{3}{4}, \frac{5}{6}, \frac{7}{8}, \dots$

36. Device component status detection and illustration apparatuses, methods, and systems

Device component status detection and illustration apparatuses, methods, and systems determine and generate visualizations of updates timelines indicating device components associated with a remote connected device at different times. A device component status detection and illustration apparatus...

EXHIBENT ASSIGNMENT: HARRISON CONNECTED SPAC CORP [4-5]
US8880507 (15 PATENTS) (15-FEB-2018)

2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 2679, 2680, 2681, 26

*6. Fail-safe way to apply custom software image updates to non-volatile storage

100 Described is a system and method in which software updates in the form of self-contained secure entities are applied to an embedded devices non-volatile storage in a failsafe manner. Various types of software updates may be applied, and updates may contain executable code and/or data. Following a...

CRIBBENT & SSMOWEN: MICROSOFT TECH LICENSE 06/11/07

Innovation (7) Files

Discovers | Patents | File versions updated priority files | + 0 records | 0 shares

Visuals | Query | Results | Relevance | None | None

(57) [Summary] [Problem] Arbitrary timing of data fluctuation results performed offline between an advisor and a computer device (accounting processing device) installed in an accounting office without exclusive processing when connected via a communication network Provided are a data...

CURRENT ASSIGNEES: NIPPON DIGITAL KEIKIUSHO KK
JP4064520B2 | JPKN PATENTS | 30 APR 2009

46 Medium, control method, and information processing apparatus

A medium stores a control program for an information processing apparatus. The control program causes the information processing apparatus to execute a procedure. The procedure includes obtaining history information on a type of an operation performed to each of a plurality of files, calculating a...

CURRENT ASSIGNEES: FUJITSU LTD
US20140091920 | US APPLICATIONS | 20-MAR-2014

45 Self-describing software image update components

Described is a system and method in which software images including updates are provided as packages. The package is self describing, thereby facilitating the replacement of only component parts of an image. A software build process maps operating system features comprising files, metadata...

CURRENT ASSIGNEES: MICROSOFT CORP
CN10415805 | CNIPA PATENTS | 29-SEP-2010

44 Remote Embedded Device Update Platform Apparatuses, Methods and Systems

The Remote Embedded Device Update Platform Apparatuses, Methods and Systems ("REDUP") transforms telemetry inputs via REDUP components into remote embedded updates outputs. The REDUP may include a memory and processor with instructions to obtain a remote embedded device connection request message...

CURRENT ASSIGNEES: HARMAN CONNECTED SRVC CORP (+1)
US20160196111 | US APPLICATIONS | 07-JUL-2016

43 System and method for updating files through correction with compressed updates

FIELD: physics; computer engineering. SUBSTANCE: Invention relates a system and method for updating one or more files on a computer device. A client computer device receives update information, containing a subject index, which identifies specific delta-correction, together with specific versions of...

CURRENT ASSIGNEES: MICROSOFT CORP
RU236705C2 | RUSSIA PATENTS | 10-SEP-2009

42 Remote Embedded Device Update Platform Apparatuses, Methods and Systems

EAST Search History (Interference)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L8	1	(metadata and generat\$3 and updat\$3 and content\$1 and automatic\$4 and respons\$4 and associat\$3 and user\$1 and server\$1 and system\$1 and network\$3 and receiv\$3 and copy and first and file and client and device\$1).clm.	USPAT	OR	OFF	2020/03/20 16:36
L9	0	(greater and metadata and generat\$3 and updat\$3 and content\$1 and automatic\$4 and respons\$4 and associat\$3 and user\$1 and server\$1 and system\$1 and network\$3 and receiv\$3 and copy and first and file and client and device\$1).clm.	USPAT	OR	OFF	2020/03/20 16:37
L10	0	(priority and metadata and generat\$3 and updat\$3 and content\$1 and automatic\$4 and respons\$4 and associat\$3 and user\$1 and server\$1 and system\$1 and network\$3 and receiv\$3 and copy and first and file and client and device\$1).clm.	USPAT	OR	OFF	2020/03/20 16:38
L13	0	(transfer\$3 and metadata and generat\$3 and updat\$3 and content\$1 and automatic\$4 and respons\$4 and associat\$3 and user\$1 and server\$1 and system\$1 and network\$3 and receiv\$3 and copy and first and file and client and device\$1).clm.	USPAT	OR	OFF	2020/03/20 16:39
L14	1	(second and metadata and generat\$3 and updat\$3 and content\$1 and automatic\$4 and respons\$4 and associat\$3 and user\$1 and server\$1 and system\$1 and network\$3 and receiv\$3 and copy and first and file and client and device\$1).clm.	USPAT	OR	OFF	2020/03/20 16:44
L15	1	(user\$1 and second and metadata and generat\$3 and updat\$3 and content\$1 and automatic\$4 and respons\$4 and associat\$3 and user\$1 and server\$1 and system\$1 and network\$3 and receiv\$3 and copy and first and file and client and device\$1).clm.	USPAT	OR	OFF	2020/03/20 16:49
L16	0	(interference and user\$1 and second and metadata and generat\$3 and updat\$3 and content\$1 and automatic\$4 and respons\$4 and associat\$3 and user\$1 and server\$1 and system\$1 and network\$3 and receiv\$3 and copy and first and file and client and device\$1).clm.	USPAT	OR	OFF	2020/03/20 16:51

EAST Search History (Interference)

L17	1	(interface and user\$1 and second and metadata and generat\$3 and updat\$3 and content\$1 and automatic\$4 and respons\$4 and associat\$3 and user\$1 and server\$1 and system\$1 and network\$3 and receiv\$3 and copy and first and file and client and device\$1).clm.	USPAT	OR	OFF	2020/03/20 16:51
L18	0	(version\$1 and interface and user\$1 and second and metadata and generat\$3 and updat\$3 and content\$1 and automatic\$4 and respons\$4 and associat\$3 and user\$1 and server\$1 and system\$1 and network\$3 and receiv\$3 and copy and first and file and client and device\$1).clm.	USPAT	OR	OFF	2020/03/20 16:52
L19	0	(represent\$3 and version\$1 and interface and user\$1 and second and metadata and generat\$3 and updat\$3 and content\$1 and automatic\$4 and respons\$4 and associat\$3 and user\$1 and server\$1 and system\$1 and network\$3 and receiv\$3 and copy and first and file and client and device\$1).clm.	USPAT	OR	OFF	2020/03/20 17:07
L20	0	(associat\$3 and version\$1 and interface and user\$1 and second and metadata and generat\$3 and updat\$3 and content\$1 and automatic\$4 and respons\$4 and associat\$3 and user\$1 and server\$1 and system\$1 and network\$3 and receiv\$3 and copy and first and file and client and device\$1).clm.	USPAT	OR	OFF	2020/03/20 17:09
L21	0	(second and file and version\$1 and interface and user\$1 and second and metadata and generat\$3 and updat\$3 and content\$1 and automatic\$4 and respons\$4 and associat\$3 and user\$1 and server\$1 and system\$1 and network\$3 and receiv\$3 and copy and first and file and client and device\$1).clm.	USPAT	OR	OFF	2020/03/20 17:09
L27	1	(push and application\$1 and stor\$3 and communication and second and file and automatic\$4 and respons\$4 and associat\$3 and user\$1 and server\$1 and system\$1 and network\$3 and receiv\$3 and copy and first and file and client and device\$1).clm.	USPAT	OR	OFF	2020/03/20 17:15
L28	1	(proxy and push and application\$1 and stor\$3 and communication and second and file and automatic\$4 and respons\$4 and associat\$3 and user\$1 and server\$1 and system\$1 and network\$3 and receiv\$3 and copy and first and file and client and device\$1).clm.	USPAT	OR	OFF	2020/03/20 17:16

EAST Search History (Interference)

L29	1	(object\$1 and proxy and push and application\$1 and stor\$3 and communication and second and file and automatic\$4 and respons\$4 and associat\$3 and user\$1 and server\$1 and system\$1 and network\$3 and receiv\$3 and copy and first and file and client and device\$1).clm.	USPAT	OR	OFF	2020/03/20 17:16
L30	1	(agent and object\$1 and proxy and push and application\$1 and stor\$3 and communication and second and file and automatic\$4 and respons\$4 and associat\$3 and user\$1 and server\$1 and system\$1 and network\$3 and receiv\$3 and copy and first and file and client and device\$1).clm.	USPAT	OR	OFF	2020/03/20 17:17
L31	1	(configur\$3 and agent and object\$1 and proxy and push and application\$1 and stor\$3 and communication and second and file and automatic\$4 and respons\$4 and associat\$3 and user\$1 and server\$1 and system\$1 and network\$3 and receiv\$3 and copy and first and file and client and device\$1).clm.	USPAT	OR	OFF	2020/03/20 17:19
L32	0	(graphical and configur\$3 and agent and object\$1 and proxy and push and application\$1 and stor\$3 and communication and second and file and automatic\$4 and respons\$4 and associat\$3 and user\$1 and server\$1 and system\$1 and network\$3 and receiv\$3 and copy and first and file and client and device\$1).clm.	USPAT	OR	OFF	2020/03/20 17:21

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L5	10	L2 and (copy\$3 near5 file\$1) and (receiv\$3 near5 file\$1) and (modify\$3 near5 file\$1)	USPAT	OR	OFF	2020/03/23 08:07
L10	10	L7 and (copy\$3 near5 file\$1) and (receiv\$3 near5 file\$1) and (modify\$3 near5 file\$1)	USPAT	OR	OFF	2020/03/23 08:07
L12	33	(file\$1 and version\$1).ti. and @py<="2007"	USPAT	OR	OFF	2020/03/23 08:07
L13	3	L12 AND (Y10S707/99954 OR Y10S707/99953 OR G06F16/10 OR Y10S707/99952 OR G06F8/71 OR G06F11/1435 OR G06F16/1873 OR Y10S707/99931 OR G06F11/1448 OR G06F16/178 OR G06F16/9574 OR G06F17/24 OR G06F21/6209 OR G06F21/6218 OR G06F21/6227 OR G06F2221/2147 OR Y10S707/99936 OR Y10S707/99942 OR G06F11/006 OR G06F11/10 OR G06F11/1466 OR G06F11/1662 OR G06F11/183 OR G06F11/187 OR G06F16/137 OR G06F16/182 OR G06F16/1865 OR G06F16/9014 OR G06F16/9577 OR G06F2003/0697 OR G06F21/57 OR G06F21/64 OR G06F2201/84 OR G06F2221/2107 OR G06F3/0482 OR G06F3/0601 OR G06F3/0626 OR G06F3/0643 OR G06F3/0674 OR G06F3/1204 OR G06F3/1244 OR G06F3/1284 OR G06F3/1285 OR G06F8/61 OR G06F8/65 OR G06F9/451 OR G06F9/454).CPC.) and metadata	USPAT	OR	OFF	2020/03/23 08:07
L15	51	L14 and (file\$1 near5 metadata)	USPAT	OR	OFF	2020/03/23 08:07

EAST Search History (Prior Art)

L16	12	L15 AND ((Y10S707/99953 OR G06F16/10 OR Y10S707/99938 OR Y10S707/99954 OR Y10S707/99952 OR G06F8/71 OR Y10S707/99939 OR Y10S707/99955 OR G06F16/958 OR Y10S707/99943 OR G06F11/1435 OR Y10S707/99931 OR Y10S707/99933 OR Y10S707/99934 OR Y10S707/99942 OR Y10S707/99945 OR G06F11/1451 OR G06F11/1464 OR G06F16/2343 OR G06F2201/84 OR G06F8/20 OR G06F11/1441 OR G06F11/1448 OR G06F11/1461 OR G06F11/2097 OR G06F16/128 OR G06F16/1724 OR G06F16/21 OR G06F16/252 OR Y10S707/922 OR Y10S707/959 OR G06F11/008 OR G06F11/1096 OR G06F11/14 OR G06F11/1453 OR G06F11/1458 OR G06F11/1466 OR G06F11/1469 OR G06F11/1662 OR G06F11/203 OR G06F11/2074 OR G06F11/3664 OR G06F16/119 OR G06F16/137 OR G06F16/148 OR G06F16/152 OR G06F16/172 OR G06F16/1734 OR G06F16/176 OR G06F16/1767 OR G06F16/178 OR G06F16/1787 OR G06F16/182 OR G06F16/1824 OR G06F16/1865 OR G06F16/1873 OR G06F16/20 OR G06F16/93 OR G06F17/50 OR G06F2003/0697 OR G06F2201/80 OR G06F2201/815 OR G06F2201/83 OR G06F2217/04 OR G06F3/0601 OR G06F3/0611 OR G06F3/0643 OR G06F3/065 OR G06F3/067).CPC.) and priority	USPAT	OR	OFF	2020/03/23 08:07
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EAST Search History (Prior Art)

L17	9	L15 AND ((Y10S707/99953 OR G06F16/10 OR Y10S707/99938 OR Y10S707/99954 OR Y10S707/99952 OR G06F8/71 OR Y10S707/99939 OR Y10S707/99955 OR G06F16/958 OR Y10S707/99943 OR G06F11/1435 OR Y10S707/99931 OR Y10S707/99933 OR Y10S707/99934 OR Y10S707/99942 OR Y10S707/99945 OR G06F11/1451 OR G06F11/1464 OR G06F16/2343 OR G06F2201/84 OR G06F8/20 OR G06F11/1441 OR G06F11/1448 OR G06F11/1461 OR G06F11/2097 OR G06F16/128 OR G06F16/1724 OR G06F16/21 OR G06F16/252 OR Y10S707/922 OR Y10S707/959 OR G06F11/008 OR G06F11/1096 OR G06F11/14 OR G06F11/1453 OR G06F11/1458 OR G06F11/1466 OR G06F11/1469 OR G06F11/1662 OR G06F11/203 OR G06F11/2074 OR G06F11/3664 OR G06F16/119 OR G06F16/137 OR G06F16/148 OR G06F16/152 OR G06F16/172 OR G06F16/1734 OR G06F16/176 OR G06F16/1767 OR G06F16/178 OR G06F16/1787 OR G06F16/182 OR G06F16/1824 OR G06F16/1865 OR G06F16/1873 OR G06F16/20 OR G06F16/93 OR G06F17/50 OR G06F2003/0697 OR G06F2201/80 OR G06F2201/815 OR G06F2201/83 OR G06F2217/04 OR G06F3/0601 OR G06F3/0611 OR G06F3/0643 OR G06F3/065 OR G06F3/067).CPC.) and priority and client\$1	USPAT	OR	OFF	2020/03/23 08:07
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EAST Search History (Prior Art)

L18	9	<p>L15 AND ((Y10S707/99953 OR G06F16/10 OR Y10S707/99938 OR Y10S707/99954 OR Y10S707/99952 OR G06F8/71 OR Y10S707/99939 OR Y10S707/99955 OR G06F16/958 OR Y10S707/99943 OR G06F11/1435 OR Y10S707/99931 OR Y10S707/99933 OR Y10S707/99934 OR Y10S707/99942 OR Y10S707/99945 OR G06F11/1451 OR G06F11/1464 OR G06F16/2343 OR G06F2201/84 OR G06F8/20 OR G06F11/1441 OR G06F11/1448 OR G06F11/1461 OR G06F11/2097 OR G06F16/128 OR G06F16/1724 OR G06F16/21 OR G06F16/252 OR Y10S707/922 OR Y10S707/959 OR G06F11/008 OR G06F11/1096 OR G06F11/14 OR G06F11/1453 OR G06F11/1458 OR G06F11/1466 OR G06F11/1469 OR G06F11/1662 OR G06F11/203 OR G06F11/2074 OR G06F11/3664 OR G06F16/119 OR G06F16/137 OR G06F16/148 OR G06F16/152 OR G06F16/172 OR G06F16/1734 OR G06F16/176 OR G06F16/1767 OR G06F16/178 OR G06F16/1787 OR G06F16/182 OR G06F16/1824 OR G06F16/1865 OR G06F16/1873 OR G06F16/20 OR G06F16/93 OR G06F17/50 OR G06F2003/0697 OR G06F2201/80 OR G06F2201/815 OR G06F2201/83 OR G06F2217/04 OR G06F3/0601 OR G06F3/0611 OR G06F3/0643 OR G06F3/065 OR G06F3/067).CPC.) and priority and client\$1 and server\$1</p>	USPAT	OR	OFF	2020/03/23 08:07
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EAST Search History (Prior Art)

L19	5	L15 AND ((Y10S707/99953 OR G06F16/10 OR Y10S707/99938 OR Y10S707/99954 OR Y10S707/99952 OR G06F8/71 OR Y10S707/99939 OR Y10S707/99955 OR G06F16/958 OR Y10S707/99943 OR G06F11/1435 OR Y10S707/99931 OR Y10S707/99933 OR Y10S707/99934 OR Y10S707/99942 OR Y10S707/99945 OR G06F11/1451 OR G06F11/1464 OR G06F16/2343 OR G06F2201/84 OR G06F8/20 OR G06F11/1441 OR G06F11/1448 OR G06F11/1461 OR G06F11/2097 OR G06F16/128 OR G06F16/1724 OR G06F16/21 OR G06F16/252 OR Y10S707/922 OR Y10S707/959 OR G06F11/008 OR G06F11/1096 OR G06F11/14 OR G06F11/1453 OR G06F11/1458 OR G06F11/1466 OR G06F11/1469 OR G06F11/1662 OR G06F11/203 OR G06F11/2074 OR G06F11/3664 OR G06F16/119 OR G06F16/137 OR G06F16/148 OR G06F16/152 OR G06F16/172 OR G06F16/1734 OR G06F16/176 OR G06F16/1767 OR G06F16/178 OR G06F16/1787 OR G06F16/182 OR G06F16/1824 OR G06F16/1865 OR G06F16/1873 OR G06F16/20 OR G06F16/93 OR G06F17/50 OR G06F2003/0697 OR G06F2201/80 OR G06F2201/815 OR G06F2201/83 OR G06F2217/04 OR G06F3/0601 OR G06F3/0611 OR G06F3/0643 OR G06F3/065 OR G06F3/067).CPC.) and priority and client\$1 and server\$1 and resum\$3	USPAT	OR	OFF	2020/03/23 08:07
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EAST Search History (Prior Art)

L20	4	L15 AND ((Y10S707/99953 OR G06F16/10 OR Y10S707/99938 OR Y10S707/99954 OR Y10S707/99952 OR G06F8/71 OR Y10S707/99939 OR Y10S707/99955 OR G06F16/958 OR Y10S707/99943 OR G06F11/1435 OR Y10S707/99931 OR Y10S707/99933 OR Y10S707/99934 OR Y10S707/99942 OR Y10S707/99945 OR G06F11/1451 OR G06F11/1464 OR G06F16/2343 OR G06F2201/84 OR G06F8/20 OR G06F11/1441 OR G06F11/1448 OR G06F11/1461 OR G06F11/2097 OR G06F16/128 OR G06F16/1724 OR G06F16/21 OR G06F16/252 OR Y10S707/922 OR Y10S707/959 OR G06F11/008 OR G06F11/1096 OR G06F11/14 OR G06F11/1453 OR G06F11/1458 OR G06F11/1466 OR G06F11/1469 OR G06F11/1662 OR G06F11/203 OR G06F11/2074 OR G06F11/3664 OR G06F16/119 OR G06F16/137 OR G06F16/148 OR G06F16/152 OR G06F16/172 OR G06F16/1734 OR G06F16/176 OR G06F16/1767 OR G06F16/178 OR G06F16/1787 OR G06F16/182 OR G06F16/1824 OR G06F16/1865 OR G06F16/1873 OR G06F16/20 OR G06F16/93 OR G06F17/50 OR G06F2003/0697 OR G06F2201/80 OR G06F2201/815 OR G06F2201/83 OR G06F2217/04 OR G06F3/0601 OR G06F3/0611 OR G06F3/0643 OR G06F3/065 OR G06F3/067).CPC.) and priority and client\$1 and server\$1 and resum\$3 and automatic\$3	USPAT	OR	OFF	2020/03/23 08:07
L23	21	(version\$1 and document\$1).ti. and @py<="2007"	USPAT	OR	OFF	2020/03/23 08:07
L24	1	"10289607".pn.	USPAT	OR	OFF	2020/03/23 08:07

EAST Search History (Prior Art)

L40	12	L39 AND ((Y10S707/99953 OR G06F16/10 OR Y10S707/99938 OR Y10S707/99954 OR Y10S707/99952 OR G06F8/71 OR Y10S707/99939 OR Y10S707/99955 OR G06F16/958 OR Y10S707/99943 OR G06F11/1435 OR Y10S707/99931 OR Y10S707/99933 OR Y10S707/99934 OR Y10S707/99942 OR Y10S707/99945 OR G06F11/1451 OR G06F11/1464 OR G06F16/2343 OR G06F2201/84 OR G06F8/20 OR G06F11/1441 OR G06F11/1448 OR G06F11/1461 OR G06F11/2097 OR G06F16/128 OR G06F16/1724 OR G06F16/21 OR G06F16/252 OR Y10S707/922 OR Y10S707/959 OR G06F11/008 OR G06F11/1096 OR G06F11/14 OR G06F11/1453 OR G06F11/1458 OR G06F11/1466 OR G06F11/1469 OR G06F11/1662 OR G06F11/203 OR G06F11/2074 OR G06F11/3664 OR G06F16/119 OR G06F16/137 OR G06F16/148 OR G06F16/152 OR G06F16/172 OR G06F16/1734 OR G06F16/176 OR G06F16/1767 OR G06F16/178 OR G06F16/1787 OR G06F16/182 OR G06F16/1824 OR G06F16/1865 OR G06F16/1873 OR G06F16/20 OR G06F16/93 OR G06F17/50 OR G06F2003/0697 OR G06F2201/80 OR G06F2201/815 OR G06F2201/83 OR G06F2217/04 OR G06F3/0601 OR G06F3/0611 OR G06F3/0643 OR G06F3/065 OR G06F3/067).CPC.) and priority	USPAT	OR	OFF	2020/03/23 08:07
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EAST Search History (Prior Art)

L49	6	<p>L35 AND ((G06F8/71 OR G06F16/10 OR G06F16/1873 OR G06F11/1435 OR Y10S707/99952 OR G06F16/178 OR G06F16/27 OR G06F16/182 OR G06F16/1844 OR G06F21/6218 OR G06F11/1448 OR G06F11/1451 OR G06F12/0246 OR G06F16/176 OR G06F16/1847 OR G06F21/6209 OR G06F21/6227 OR G06F2201/84 OR G06F2221/2147 OR G06F3/064 OR G06F3/0643 OR G06F40/166 OR G06F8/658 OR G06Q10/10 OR H04N2201/325 OR Y10S707/99931 OR Y10S707/99936 OR G06F11/1446 OR G06F11/1453 OR G06F16/137 OR G06F16/184 OR G06F16/9014 OR G06F16/9574 OR G06F2212/7201 OR G06F2212/7209 OR G06F3/0619 OR G06F3/0679 OR G06F3/0688 OR G06F3/1204 OR G06F3/1285 OR G06F8/423 OR G06F8/65 OR G06F9/44552 OR G06F9/454 OR G06F9/45516 OR G06Q10/107 OR G06T2200/16 OR G06F16/13 OR G06F16/152 OR G06F16/164 OR G06F16/93 OR G06F16/955 OR G06F16/9577).CPC.) and (priority near5 file\$1)</p>	USPAT	OR	OFF	2020/03/23 08:07
L50	30	<p>L35 AND ((G06F8/71 OR G06F16/10 OR G06F16/1873 OR G06F11/1435 OR Y10S707/99952 OR G06F16/178 OR G06F16/27 OR G06F16/182 OR G06F16/1844 OR G06F21/6218 OR G06F11/1448 OR G06F11/1451 OR G06F12/0246 OR G06F16/176 OR G06F16/1847 OR G06F21/6209 OR G06F21/6227 OR G06F2201/84 OR G06F2221/2147 OR G06F3/064 OR G06F3/0643 OR G06F40/166 OR G06F8/658 OR G06Q10/10 OR H04N2201/325 OR Y10S707/99931 OR Y10S707/99936 OR G06F11/1446 OR G06F11/1453 OR G06F16/137 OR G06F16/184 OR G06F16/9014 OR G06F16/9574 OR G06F2212/7201 OR G06F2212/7209 OR G06F3/0619 OR G06F3/0679 OR G06F3/0688 OR G06F3/1204 OR G06F3/1285 OR G06F8/423 OR G06F8/65 OR G06F9/44552 OR G06F9/454 OR G06F9/45516 OR G06Q10/107 OR G06T2200/16 OR G06F16/13 OR G06F16/152 OR G06F16/164 OR G06F16/93 OR G06F16/955 OR G06F16/9577).CPC.) and (modify\$3 near5 file\$1)</p>	USPAT	OR	OFF	2020/03/23 08:07

EAST Search History (Prior Art)

L51	13	<p>L35 AND ((G06F8/71 OR G06F16/10 OR G06F16/1873 OR G06F11/1435 OR Y10S707/99952 OR G06F16/178 OR G06F16/27 OR G06F16/182 OR G06F16/1844 OR G06F21/6218 OR G06F11/1448 OR G06F11/1451 OR G06F12/0246 OR G06F16/176 OR G06F16/1847 OR G06F21/6209 OR G06F21/6227 OR G06F2201/84 OR G06F2221/2147 OR G06F3/064 OR G06F3/0643 OR G06F40/166 OR G06F8/658 OR G06Q10/10 OR H04N2201/325 OR Y10S707/99931 OR Y10S707/99936 OR G06F11/1446 OR G06F11/1453 OR G06F16/137 OR G06F16/184 OR G06F16/9014 OR G06F16/9574 OR G06F2212/7201 OR G06F2212/7209 OR G06F3/0619 OR G06F3/0679 OR G06F3/0688 OR G06F3/1204 OR G06F3/1285 OR G06F8/423 OR G06F8/65 OR G06F9/44552 OR G06F9/454 OR G06F9/45516 OR G06Q10/107 OR G06T2200/16 OR G06F16/13 OR G06F16/152 OR G06F16/164 OR G06F16/93 OR G06F16/955 OR G06F16/9577).CPC.) and (modify\$3 near5 file\$1) and (file\$1 near5 metadata)</p>	USPAT	OR	OFF	2020/03/23 08:07
L52	10	<p>L35 AND ((G06F8/71 OR G06F16/10 OR G06F16/1873 OR G06F11/1435 OR Y10S707/99952 OR G06F16/178 OR G06F16/27 OR G06F16/182 OR G06F16/1844 OR G06F21/6218 OR G06F11/1448 OR G06F11/1451 OR G06F12/0246 OR G06F16/176 OR G06F16/1847 OR G06F21/6209 OR G06F21/6227 OR G06F2201/84 OR G06F2221/2147 OR G06F3/064 OR G06F3/0643 OR G06F40/166 OR G06F8/658 OR G06Q10/10 OR H04N2201/325 OR Y10S707/99931 OR Y10S707/99936 OR G06F11/1446 OR G06F11/1453 OR G06F16/137 OR G06F16/184 OR G06F16/9014 OR G06F16/9574 OR G06F2212/7201 OR G06F2212/7209 OR G06F3/0619 OR G06F3/0679 OR G06F3/0688 OR G06F3/1204 OR G06F3/1285 OR G06F8/423 OR G06F8/65 OR G06F9/44552 OR G06F9/454 OR G06F9/45516 OR G06Q10/107 OR G06T2200/16 OR G06F16/13 OR G06F16/152 OR G06F16/164 OR G06F16/93 OR G06F16/955 OR G06F16/9577).CPC.) and (modify\$3 near5 file\$1) and (file\$1 near5 metadata) and (updat\$3 near5 version\$1)</p>	USPAT	OR	OFF	2020/03/23 08:07

EAST Search History (Prior Art)

L53	4	<p>L35 AND ((G06F8/71 OR G06F16/10 OR G06F16/1873 OR G06F11/1435 OR Y10S707/99952 OR G06F16/178 OR G06F16/27 OR G06F16/182 OR G06F16/1844 OR G06F21/6218 OR G06F11/1448 OR G06F11/1451 OR G06F12/0246 OR G06F16/176 OR G06F16/1847 OR G06F21/6209 OR G06F21/6227 OR G06F2201/84 OR G06F2221/2147 OR G06F3/064 OR G06F3/0643 OR G06F40/166 OR G06F8/658 OR G06Q10/10 OR H04N2201/325 OR Y10S707/99931 OR Y10S707/99936 OR G06F11/1446 OR G06F11/1453 OR G06F16/137 OR G06F16/184 OR G06F16/9014 OR G06F16/9574 OR G06F2212/7201 OR G06F2212/7209 OR G06F3/0619 OR G06F3/0679 OR G06F3/0688 OR G06F3/1204 OR G06F3/1285 OR G06F8/423 OR G06F8/65 OR G06F9/44552 OR G06F9/454 OR G06F9/45516 OR G06Q10/107 OR G06T2200/16 OR G06F16/13 OR G06F16/152 OR G06F16/164 OR G06F16/93 OR G06F16/955 OR G06F16/9577).CPC.) and (modify\$3 near5 file\$1) and (file\$1 near5 metadata) and (updat\$3 near5 version\$1) and (file\$1 near5 transfer\$3)</p>	USPAT	OR	OFF	2020/03/23 08:07
L55	14	<p>L35 AND ((G06F8/71 OR G06F16/10 OR G06F16/1873 OR G06F11/1435 OR Y10S707/99952 OR G06F16/178 OR G06F16/27 OR G06F16/182 OR G06F16/1844 OR G06F21/6218 OR G06F11/1448 OR G06F11/1451 OR G06F12/0246 OR G06F16/176 OR G06F16/1847 OR G06F21/6209 OR G06F21/6227 OR G06F2201/84 OR G06F2221/2147 OR G06F3/064 OR G06F3/0643 OR G06F40/166 OR G06F8/658 OR G06Q10/10 OR H04N2201/325 OR Y10S707/99931 OR Y10S707/99936 OR G06F11/1446 OR G06F11/1453 OR G06F16/137 OR G06F16/184 OR G06F16/9014 OR G06F16/9574 OR G06F2212/7201 OR G06F2212/7209 OR G06F3/0619 OR G06F3/0679 OR G06F3/0688 OR G06F3/1204 OR G06F3/1285 OR G06F8/423 OR G06F8/65 OR G06F9/44552 OR G06F9/454 OR G06F9/45516 OR G06Q10/107 OR G06T2200/16 OR G06F16/13 OR G06F16/152 OR G06F16/164 OR G06F16/93 OR G06F16/955 OR G06F16/9577).CPC.) and (modify\$3 near5 file\$1) and metadata</p>	USPAT	OR	OFF	2020/03/23 08:07

EAST Search History (Prior Art)

L56	1	L35 AND ((G06F8/71 OR G06F16/10 OR G06F16/1873 OR G06F11/1435 OR Y10S707/99952 OR G06F16/178 OR G06F16/27 OR G06F16/182 OR G06F16/1844 OR G06F21/6218 OR G06F11/1448 OR G06F11/1451 OR G06F12/0246 OR G06F16/176 OR G06F16/1847 OR G06F21/6209 OR G06F21/6227 OR G06F2201/84 OR G06F2221/2147 OR G06F3/064 OR G06F3/0643 OR G06F40/166 OR G06F8/658 OR G06Q10/10 OR H04N2201/325 OR Y10S707/99931 OR Y10S707/99936 OR G06F11/1446 OR G06F11/1453 OR G06F16/137 OR G06F16/184 OR G06F16/9014 OR G06F16/9574 OR G06F2212/7201 OR G06F2212/7209 OR G06F3/0619 OR G06F3/0679 OR G06F3/0688 OR G06F3/1204 OR G06F3/1285 OR G06F8/423 OR G06F8/65 OR G06F9/44552 OR G06F9/454 OR G06F9/45516 OR G06Q10/107 OR G06T2200/16 OR G06F16/13 OR G06F16/152 OR G06F16/164 OR G06F16/93 OR G06F16/955 OR G06F16/9577).CPC.) and (modify\$3 near5 file\$1) and metadata and proxy	USPAT	OR	OFF	2020/03/23 08:07
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EAST Search History (Prior Art)

L58	2	L57 AND ((G06F16/10 OR G06F8/71 OR G06F16/178 OR G06F16/9574 OR G06F21/6209 OR G06F21/6218 OR G06F21/6227 OR G06F2221/2147 OR G06F40/166 OR G06Q10/10 OR G06T2200/16 OR G06T2210/32 OR Y10S707/99936 OR Y10S707/99942 OR G06F11/006 OR G06F11/10 OR G06F11/1466 OR G06F11/1662 OR G06F11/183 OR G06F11/187 OR G06F16/128 OR G06F16/137 OR G06F16/181 OR G06F16/182 OR G06F16/1865 OR G06F16/9014 OR G06F16/9577 OR G06F2003/0697 OR G06F21/57 OR G06F21/64 OR G06F2201/84 OR G06F2221/2107 OR G06F3/0482 OR G06F3/0601 OR G06F3/0626 OR G06F3/0643 OR G06F3/0674 OR G06F3/1204 OR G06F3/1244 OR G06F3/1284 OR G06F3/1285 OR G06F8/61 OR G06F8/65 OR G06F9/451 OR G06F9/454 OR G06Q10/107 OR H04L51/00 OR H04L67/34 OR H04N1/00212 OR H04N1/00222 OR H04N1/00233 OR H04N1/00307 OR H04N1/32122 OR H04N2201/0015 OR H04N2201/0039 OR H04N2201/0049 OR H04N2201/0055 OR H04N2201/0081 OR H04N2201/0089 OR H04N2201/3249 OR H04N2201/325 OR H04N2201/3266 OR H04N2201/3273 OR H04N2201/3278 OR Y10S707/915 OR Y10S707/99938 OR Y10S707/99943 OR Y10S707/99944 OR Y10S707/99945 OR Y10S707/99955 OR Y10S707/99956).CPC.) and (client near5 device\$1)	USPAT	OR	OFF	2020/03/23 08:07
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EAST Search History (Prior Art)

L59	2	L57 AND ((G06F16/10 OR G06F8/71 OR G06F16/178 OR G06F16/9574 OR G06F21/6209 OR G06F21/6218 OR G06F21/6227 OR G06F2221/2147 OR G06F40/166 OR G06Q10/10 OR G06T2200/16 OR G06T2210/32 OR Y10S707/99936 OR Y10S707/99942 OR G06F11/006 OR G06F11/10 OR G06F11/1466 OR G06F11/1662 OR G06F11/183 OR G06F11/187 OR G06F16/128 OR G06F16/137 OR G06F16/181 OR G06F16/182 OR G06F16/1865 OR G06F16/9014 OR G06F16/9577 OR G06F2003/0697 OR G06F21/57 OR G06F21/64 OR G06F2201/84 OR G06F2221/2107 OR G06F3/0482 OR G06F3/0601 OR G06F3/0626 OR G06F3/0643 OR G06F3/0674 OR G06F3/1204 OR G06F3/1244 OR G06F3/1284 OR G06F3/1285 OR G06F8/61 OR G06F8/65 OR G06F9/451 OR G06F9/454 OR G06Q10/107 OR H04L51/00 OR H04L67/34 OR H04N1/00212 OR H04N1/00222 OR H04N1/00233 OR H04N1/00307 OR H04N1/32122 OR H04N2201/0015 OR H04N2201/0039 OR H04N2201/0049 OR H04N2201/0055 OR H04N2201/0081 OR H04N2201/0089 OR H04N2201/3249 OR H04N2201/325 OR H04N2201/3266 OR H04N2201/3273 OR H04N2201/3278 OR Y10S707/915 OR Y10S707/99938 OR Y10S707/99943 OR Y10S707/99944 OR Y10S707/99945 OR Y10S707/99955 OR Y10S707/99956).CPC.) and (client near5 device\$1)and network\$3	USPAT	OR	OFF	2020/03/23 08:07
L60	3	14 and (proxy near5 object\$1)	USPAT	OR	OFF	2020/03/23 08:14
L61	3	60 AND ((G06F8/71 OR G06F9/541 OR G06F9/548 OR G06Q10/107 OR H04L51/00 OR H04N21/25891 OR H04N21/2668 OR H04N21/4532 OR H04N21/454 OR H04N21/45455 OR H04N21/478 OR H04N21/6405 OR H04N7/162 OR H04N7/17318 OR Y10S707/99954).CPC.) and client	USPAT	OR	OFF	2020/03/23 08:15
L62	2	60 AND ((G06F8/71 OR G06F9/541 OR G06F9/548 OR G06Q10/107 OR H04L51/00 OR H04N21/25891 OR H04N21/2668 OR H04N21/4532 OR H04N21/454 OR H04N21/45455 OR H04N21/478 OR H04N21/6405 OR H04N7/162 OR H04N7/17318 OR Y10S707/99954).CPC.) and client and device\$1	USPAT	OR	OFF	2020/03/23 08:15

EAST Search History (Prior Art)

L63	2	60 AND ((G06F8/71 OR G06F9/541 OR G06F9/548 OR G06Q10/107 OR H04L51/00 OR H04N21/25891 OR H04N21/2668 OR H04N21/4532 OR H04N21/454 OR H04N21/45455 OR H04N21/478 OR H04N21/6405 OR H04N7/162 OR H04N7/17318 OR Y10S707/99954).CPC.) and client and device\$1 and version\$1	USPAT	OR	OFF	2020/03/23 08:15
L64	1	60 AND ((G06F8/71 OR G06F9/541 OR G06F9/548 OR G06Q10/107 OR H04L51/00 OR H04N21/25891 OR H04N21/2668 OR H04N21/4532 OR H04N21/454 OR H04N21/45455 OR H04N21/478 OR H04N21/6405 OR H04N7/162 OR H04N7/17318 OR Y10S707/99954).CPC.) and client and device\$1 and version\$1 and modify\$3	USPAT	OR	OFF	2020/03/23 08:15
L65	1	60 AND ((G06F8/71 OR G06F9/541 OR G06F9/548 OR G06Q10/107 OR H04L51/00 OR H04N21/25891 OR H04N21/2668 OR H04N21/4532 OR H04N21/454 OR H04N21/45455 OR H04N21/478 OR H04N21/6405 OR H04N7/162 OR H04N7/17318 OR Y10S707/99954).CPC.) and client and device\$1 and version\$1 and modify\$3 and copy	USPAT	OR	OFF	2020/03/23 08:16
L68	1	60 AND ((G06F8/71 OR G06F9/541 OR G06F9/548 OR G06Q10/107 OR H04L51/00 OR H04N21/25891 OR H04N21/2668 OR H04N21/4532 OR H04N21/454 OR H04N21/45455 OR H04N21/478 OR H04N21/6405 OR H04N7/162 OR H04N7/17318 OR Y10S707/99954).CPC.) and client and device\$1 and version\$1 and modify\$3 and copy and file\$1	USPAT	OR	OFF	2020/03/23 08:16
L71	2	26 and (mobile near5 device\$1)	USPAT	OR	OFF	2020/03/23 08:17
L73	2	71 AND ((G06F16/958).CPC.) and file\$1	USPAT	OR	OFF	2020/03/23 08:20
L74	2	71 AND ((G06F16/958).CPC.) and file\$1 and transfer\$4	USPAT	OR	OFF	2020/03/23 08:20
L75	2	71 AND ((G06F16/958).CPC.) and file\$1 and transfer\$4 and version\$1	USPAT	OR	OFF	2020/03/23 08:20

SEARCH TERMS



metadata priority file copy

+ Synonym

+ Synonym

SEARCH FIELDS

Date - Priority

YYYY-MM-DD --- YYYY-MM-DD

+ Inventor

+ Assignee

Patent Office Language

Status Type

Litigation

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Transparently managed, content-centric permanent content storage

US • [US20040162958A1](#) • Alan Messer • Alan Messer

Priority 2003-02-12 • Filed 2003-02-12 • Published 2004-08-10

Similar: A method for user-centric content storage that enables the permanent storage of content without user concern for data location or layout, and for ensuring data integrity transparently based on available secondary storage. A content storage device according to the present techniques includes ...

Digital postcards Technology

WO SE • [SE0701217L](#) • Lars Cornell • Lars Cornell

Priority 2007-05-22 • Filed 2007-05-22 • Published 2008-11-23

Similar: Method for establishing a picture oriented e-card technique. Metadata belonging to images, documents and folders is stored within the actual files. All information related to an image is always connected to the object file, and the problem of metadata changing when an object is copied or moved is ...

Cataloging backup data

WO EP US CN • [EP2915879A1](#) • Albrecht Schrott • Hewlett-Packard Development Company, L.P.

Priority 2012-10-31 • Filed 2012-10-31 • Published 2015-09-09

Methods and apparatus are disclosed to catalog backup data. An example method of cataloging backup data includes when a source server is offline, copying the backup data to a data repository from the source server. In response to completing copying of the backup data, the example method also ...

Program, apparatus and method for hsm control

JP • [JP2007305613A](#) • Fumihiko Ito • Fujitsu Ltd

Priority 2006-05-16 • Filed 2006-05-16 • Published 2007-11-22

<P>PROBLEM TO BE SOLVED: To provide programs, an apparatus and a method for HSM control, which efficiently generate space areas in a primary storage.

<P>SOLUTION: A computer executes a metadata duplication information management step for managing information in which metadata for every file in a ...

Methods and systems for tracking document lineage

US • [US20060044038A1](#) • Jonah Petri • Jonah Petri

Priority 2006-08-04 • Filed 2006-08-04 • Published 2006-02-14

Systems and methods for managing data, such as metadata, are disclosed. In one exemplary method, metadata representing a document lineage are stored, and the stored metadata are searched. The metadata representing a document lineage may comprise a document identifier, identifying a collection of ...

Automatic rules-based device synchronization

US • [US7647346B2](#) • Andrew L. Silverman • Microsoft Corporation

Priority 2005-03-29 • Filed 2005-03-29 • Granted 2010-01-12 • Published 2010-01-12

Automatic rules-based synchronization of digital files on a source device and a target device coupled to it. A source computer executes a synchronization engine for managing transfer of files from a source database to a target device coupled to the computer as a function of a defined storage ...

Mobile mirror drive and remote access system

US • [US20110295798A1](#) • Joseph Shain • Joseph Shain

Priority 2010-05-27 • Filed 2010-05-27 • Published 2011-12-01

A solid state memory stores a mirror image of a computer hard drive. The solid state memory is coupled with a wireless communication chip, such as 3G, in order to enable dynamically updating the files on the solid state memory. Any modifications done to the files on the hard drive are synced with ...

Methods and systems for managing data



WO EP US CN HK • [US8156189B2](#) • Yan Arrouye • Apple Inc.

Priority 2004-06-25 • Filed 2010-03-26 • Granted 2012-04-10 • Published 2012-04-10

Systems and methods for managing data, such as metadata or indexes of content of files. In one exemplary method, notifications to update a metadata database or an index database are combined into a combined notification. According to other aspects, an order among logical locations on a storage ...

Methods and systems for managing data

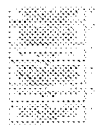


US CN • [US8429288B2](#) • Yan Arrouye • Apple Inc.

Priority 2004-06-26 • Filed 2006-01-30 • Granted 2013-04-23 • Published 2013-04-23

Systems and methods for managing data, such as metadata. In one exemplary method, metadata from files created by several different software applications are captured, and the captured metadata is searched. The type of information in metadata for one type of file differs from the type of ...

Methods and systems for managing data



WO EP US CN HK • [US8131674B2](#) • Yan Arrouye • Apple Inc.

Priority 2004-06-26 • Filed 2005-04-22 • Granted 2012-03-06 • Published 2012-03-06

Systems and methods for managing data, such as metadata or index databases. In one exemplary method, a notification that an existing file has been modified or that a new file has been created is received by an indexing software component, which then, in response to the notification performs an ...

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SEARCH TERMS

x

versions updated priority file copy x

+ Synonym

+ Synonym

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Date · Priority

YYYY-MM-DD — YYYY-MM-DD

+ Inventor

+ Assignee

Patent Office · Language

Status · Type

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Method and system for maintaining namespace consistency with a file system

EP US CN JP KR AU BR CA MX RU · CN100535399C · N-R 克里斯蒂森 · 微软公司

Priority 2004-11-30 · Filed 2005-10-26 · Granted 2009-09-02 · Published 2009-09-02

Similar A method for maintaining namespace consistency between the method and system of filter objects maintained by a file system and the associated selection. Filter monitoring whether the selected types of requests (or operations associated therewith) and determines the object within the namespace ...

Method and apparatus for digital asset management

US · US8058505B1 · Rahul Bhargava · Evolpin Software, Inc.

Priority 2010-05-17 · Filed 2011-06-16 · Granted 2014-10-21 · Published 2014-10-21

Methods and systems for digital asset management are described. Some embodiments provide methods and systems for: (1) a high-performance database system for storing assets and the associated metadata, (2) computing an inverse delta between two files without generating any intermediate files or ...

Systems and methods for a snapshot of data

US · US8015155B2 · Robert J. Anderson · Emc Corporation

Priority 2006-03-18 · Filed 2010-03-04 · Granted 2011-05-05 · Published 2011-05-05

In one embodiment, a user or client device is connected to a distributed file system comprised of one or more physical nodes. The data on each of the physical nodes store metadata about files and directories within the file system. Some of the embodiments permit a user to take a snapshot of data ...

For managing the device and method of the file system object in file system

WO EP US CN JP · CN100542005B · 丹尼尔·J·N·彼得 · 日立数据管理有限公司

Priority 2010-11-22 · Filed 2011-11-21 · Granted 2010-06-11 · Published 2010-06-11

It discloses a kind of for managing the device and method of the file system object in file system. Equipment for managing the file system object in file system includes storage device, object for storage file system, this document system includes snapshot object and file system object, snapshot ...

Systems and methods for a snapshot of data

US · US8010493B2 · Robert J. Anderson · Emc Corporation

Priority 2006-03-18 · Filed 2010-03-04 · Granted 2011-06-30 · Published 2011-06-30

In one embodiment, a user or client device is connected to a distributed file system comprised of one or more physical nodes. The data on each of the physical nodes store metadata about files and directories within the file system. Some of the embodiments permit a user to take a snapshot of data ...

Methods and systems for tracking document lineage

US · US20090040385A1 · Jonah Peiri · Jonah Peiri

Priority 2006-03-04 · Filed 2006-03-04 · Published 2009-02-14

Systems and methods for managing data, such as metadata, are disclosed. In one exemplary method, metadata representing a document lineage are stored, and the stored metadata are searched. The metadata representing a document lineage may comprise a document identifier, identifying a collection of ...

Internet file system

WO EP JP AU CA · AU2004203249A1 · Michael Roberts · Oracle International Corporation

Priority 1995-05-05 · Filed 2004-07-19 · Published 2004-09-02

1. A method for managing versions of files in a file system, the method comprising the steps of providing a mechanism for tagging versions of files that are not to be overwritten; in response to an update to a first version of a file, performing the steps of determining whether the first version ...

Systems and methods for adaptive copy on write

US · US7862368B2 · Darren P. Schack · Isilon Systems, Inc.

Priority 2007-03-21 · Filed 2007-03-21 · Granted 2011-02-01 · Published 2011-02-01

In one embodiment, a user or client device communicates with a distributed file system



comprised of one or more physical nodes. The data on each of the physical nodes store metadata about files and directories within the file system. Some of the embodiments permit a user to take a snapshot of data ...

Systems and methods for portals into snapshot data



US • [US7949692B2](#) • Eric M. Lemar • Emc Corporation

Priority 2007-08-21 • Filed 2007-08-21 • Granted 2011-05-24 • Published 2011-05-24

In one embodiment, a user or client device communicates with a distributed file system comprised of one or more physical nodes. The data on each of the physical nodes store metadata about files and directories within the file system. Some of the embodiments permit a user to take a snapshot of data ...

Systems and methods for a snapshot of data



US • [US8356013B2](#) • Neal T. Fashen • Emc Corporation

Priority 2006-08-10 • Filed 2010-12-17 • Granted 2013-01-15 • Published 2013-01-15

In one embodiment, a user or client device is connected to a distributed file system comprised of one or more physical nodes. The data on each of the physical nodes store metadata about files and directories within the file system. Some of the embodiments permit a user to take a snapshot of data ...

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SEARCH TERMS



file copy client devices + Synonym

+ Synonym

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Date · Priority ·

YYYY-MM-DD — YYYY-MM-DD

+ Inventor

+ Assignee

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File sharing via link generation

US · [US9069178B2](#) · Arash Ferdowsi · Dropbox, Inc.

Priority 2011-06-22 · Filed 2011-08-26 · Granted 2015-06-02 · Published 2015-06-02

Users specify that a file set comprising their files, folders, or other content owned by the users should be made accessible via a link, such as a uniform resource locator (URL). The system which stores and provides access to the files accordingly creates a link that specifies the file set to be ...

Efficient backups using dynamically shared storage pools in peer-to-peer ...

US · [US7529785B1](#) · Michael P. Spertus · Symantec Corporation

Priority 2006-02-26 · Filed 2006-02-28 · Granted 2009-05-05 · Published 2009-05-05

A system for efficient backups using dynamically shared storage pools in peer-to-peer networks comprises one or more processors and memory coupled to the processors. The memory stores instructions executable by the processors to implement a backup manager configured to dynamically subdivide a ...

Remote file updates through remote protocol

EP US CN JP KR AT DE · [EP1613600B1](#) · Ahmed H. Mohamed · Microsoft Corporation

Priority 2004-07-19 · Filed 2005-07-16 · Granted 2008-05-10 · Published 2008-09-10

A computer-implemented method of updating a file, the method being performed by a client (102), the method comprising: instructing a remote server (104) to open a source file (300) on the remote server; instructing the remote server (104) to open a destination file (302) on the remote server; ...

System and method for policy-based data lifecycle management

US · [US7689335B1](#) · James Phillip Orr · Symantec Operating Corporation

Priority 2005-05-31 · Filed 2005-05-31 · Granted 2010-03-16 · Published 2010-03-16

System and method for policy-based lifecycle management of data in file systems. In embodiments, an expiration policy for the files may be stored as part of the file system metadata. The expiration policy may be as simple as an expiration date for the file, or a more complex policy that specifies ...

Hybrid segment-oriented file server and WAN accelerator

WO EP US · [US9330025B2](#) · Steven McCann · Riverted Technology, Inc.

Priority 2007-05-08 · Filed 2008-05-06 · Granted 2018-03-27 · Published 2018-03-27

In a network including WAN accelerators and segment-oriented file servers, a method comprises responding to a client request to manipulate a file via a network file protocol by receiving a first request at a first WAN accelerator, wherein the request is a request to open a file located at a file ...

Load based file allocation among a plurality of storage devices

WO US · [US9522252B2](#) · Scott P. Challey · Nirvanix, Inc.

Priority 2007-08-29 · Filed 2012-08-27 · Granted 2013-08-27 · Published 2013-08-27

A method for balancing loads among a plurality of data storage devices, includes: receiving a request from a user device to download a data file; identifying a first set of storage devices containing the requested data file, wherein the first set comprises one or more storage devices; identifying ...

Data synchronization management

US · [US9098481B2](#) · Anand Vibhor · Commvault Systems, Inc.

Priority 2013-01-11 · Filed 2016-05-04 · Granted 2018-02-20 · Published 2018-02-20

In general, a data synchronization management system is disclosed in which files (and/or other data) are synchronized among two or more client computing devices in connection with a backup of those files. Synchronization policies specify files to be synchronized based on selected criteria including ...

Internet-based shared file service with native PC client access and semantics



US • [US7856698B1](#) • Robert S. Phillips • MangoSoft Corporation

Priority 1996-11-22 • Filed 2008-11-01 • Granted 2006-06-06 • Published 2006-06-06

A multi-user file storage service and system enables each user of a user group to operate an arbitrary client node at an arbitrary geographic location to communicate with a remote file server node via a wide area network. More than one user of the user group is permitted to access the file group ...

Information source agent systems and methods for backing up files to a ...



US • [US9552362B2](#) • Bruce Eorden • Callahan Cellular L.L.C.

Priority 2003-05-22 • Filed 2011-05-23 • Granted 2017-01-24 • Published 2017-01-24

A system, method, and computer program product for storing back-up files using file identity properties are provided. A system is provided that intercepts file information from files while they are being stored to a back-up system. The files are intercepted with a file gathering interface that ...

Back up using locally distributed change detection



US • [US9348638B2](#) • Louis Montulli • Zetta Inc.

Priority 2012-12-21 • Filed 2015-01-26 • Granted 2016-05-24 • Published 2016-05-24

Systems and methods for replicating a client data set on a computer includes replicating the client data set using an application software on the computer; generating a manifest of a target data set during replication containing state of target data reflecting post-update state; and determining ...



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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
16/750,399	01/23/2020	Michael R. MANZANO	023027-0509067	9316
909	7590	03/24/2020	EXAMINER	
Pillsbury Winthrop Shaw Pittman, LLP			CHANNAVAJJALA, SRIRAMA T	
PO Box 10500			ART UNIT	PAPER NUMBER
McLean, VA 22102			2157	
			NOTIFICATION DATE	DELIVERY MODE
			03/24/2020	ELECTRONIC

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

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

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

docket_ip@pillsburylaw.com

Summary of Record of Interview Requirements

Manual of Patent Examining Procedure (MPEP), Section 713.04, Substance of Interview Must be Made of Record

A complete written statement as to the substance of any face-to-face, video conference, or telephone interview with regard to an application must be made of record in the application whether or not an agreement with the examiner was reached at the interview.

Title 37 Code of Federal Regulations (CFR) 1.133 Interviews

Paragraph (b)

In every instance where reconsideration is requested in view of an interview with an examiner, a complete written statement of the reasons presented at the interview as warranting favorable action must be filed by the applicant. An interview does not remove the necessity for reply to Office action as specified in §§ 1.111, 1.135. (35 U.S.C. 132)

37 CFR §1.2 Business to be transacted in writing.

All business with the Patent or Trademark Office should be transacted in writing. The personal attendance of applicants or their attorneys or agents at the Patent and Trademark Office is unnecessary. The action of the Patent and Trademark Office will be based exclusively on the written record in the Office. No attention will be paid to any alleged oral promise, stipulation, or understanding in relation to which there is disagreement or doubt.

The action of the Patent and Trademark Office cannot be based exclusively on the written record in the Office if that record is itself incomplete through the failure to record the substance of interviews.

It is the responsibility of the applicant or the attorney or agent to make the substance of an interview of record in the application file, unless the examiner indicates he or she will do so. It is the examiners responsibility to see that such a record is made and to correct material inaccuracies which bear directly on the question of patentability.

Examiners must complete an Interview Summary Form for each interview held where a matter of substance has been discussed during the interview by checking the appropriate boxes and filling in the blanks. Discussions regarding only procedural matters, directed solely to restriction requirements for which interview recordation is otherwise provided for in Section 812.01 of the Manual of Patent Examining Procedure, or pointing out typographical errors or unreadable script in Office actions or the like, are excluded from the interview recordation procedures below. Where the substance of an interview is completely recorded in an Examiners Amendment, no separate Interview Summary Record is required.

The Interview Summary Form shall be given an appropriate Paper No., placed in the right hand portion of the file, and listed on the "Contents" section of the file wrapper. In a personal interview, a duplicate of the Form is given to the applicant (or attorney or agent) at the conclusion of the interview. In the case of a telephone or video-conference interview, the copy is mailed to the applicants correspondence address either with or prior to the next official communication. If additional correspondence from the examiner is not likely before an allowance or if other circumstances dictate, the Form should be mailed promptly after the interview rather than with the next official communication.

The Form provides for recordation of the following information:

- Application Number (Series Code and Serial Number)
- Name of applicant
- Name of examiner
- Date of interview
- Type of interview (telephonic, video-conference, or personal)
- Name of participant(s) (applicant, attorney or agent, examiner, other PTO personnel, etc.)
- An indication whether or not an exhibit was shown or a demonstration conducted
- An identification of the specific prior art discussed
- An indication whether an agreement was reached and if so, a description of the general nature of the agreement (may be by attachment of a copy of amendments or claims agreed as being allowable). Note: Agreement as to allowability is tentative and does not restrict further action by the examiner to the contrary.
- The signature of the examiner who conducted the interview (if Form is not an attachment to a signed Office action)

It is desirable that the examiner orally remind the applicant of his or her obligation to record the substance of the interview of each case. It should be noted, however, that the Interview Summary Form will not normally be considered a complete and proper recordation of the interview unless it includes, or is supplemented by the applicant or the examiner to include, all of the applicable items required below concerning the substance of the interview.

A complete and proper recordation of the substance of any interview should include at least the following applicable items:

- 1) A brief description of the nature of any exhibit shown or any demonstration conducted,-
- 2) an identification of the claims discussed,
- 3) an identification of the specific prior art discussed,
- 4) an identification of the principal proposed amendments of a substantive nature discussed, unless these are already described on the Interview Summary Form completed by the Examiner,
- 5) a brief identification of the general thrust of the principal arguments presented to the examiner,
(The identification of arguments need not be lengthy or elaborate. A verbatim or highly detailed description of the arguments is not required. The identification of the arguments is sufficient if the general nature or thrust of the principal arguments made to the examiner can be understood in the context of the application file. Of course, the applicant may desire to emphasize and fully describe those arguments which he or she feels were or might be persuasive to the examiner.)
- 6) a general indication of any other pertinent matters discussed, and
- 7) if appropriate, the general results or outcome of the interview unless already described in the Interview Summary Form completed by the examiner.

Examiners are expected to carefully review the applicants record of the substance of an interview. If the record is not complete and accurate, the examiner will give the applicant an extendable one month time period to correct the record.

Examiner to Check for Accuracy

If the claims are allowable for other reasons of record, the examiner should send a letter setting forth the examiners version of the statement attributed to him or her. If the record is complete and accurate, the examiner should place the indication, Interview Record OK on the paper recording the substance of the interview along with the date and the examiners initials.

Continuation of Substance of Interview including description of the general nature of what was agreed to if an agreement was reached, or any other comments:

Discussed claim 1 limitations "automatically transfer the first metadata over a network to a second client device associated with the user such that:
the first metadata is transferred to the second client device before the copy of the first file is transferred to the second client device,
wherein, before the copy of the first file is transferred to the second client device:
the transfer of the first metadata to the second client device causes a file representation of the first file presented on a user interface of the second client device to be updated based on the first metadata, and
instead of the updated file representation of the first file representing a version of the first file currently stored on the second client device,
the updated file representation represents the updated version of the first file that is currently stored on the first client device and not currently stored on the second client device".

Discussed claim 2, 5-6

Discussed double patent rejection and briefly prior art of reference.

Applicant may further consider filing terminal disclaimer to overcome double patent rejection and proposed claim amendment and remarks and no agreement reached

Channavajjala, Srirama

From: Zhang, Ngai <ngai.zhang@pillsburylaw.com>
Sent: Wednesday, March 18, 2020 9:56 AM
To: Channavajjala, Srirama
Cc: Clarke, Sarah L.
Subject: 16/750,435 (023027-0509067) Agenda for 2020-03-19 Examiner Interview
Attachments: number.jpg; screen_time0.jpg; screen_time1.jpg

Hi Examiner Channavajjala –

During tomorrow's interview, we would like to discuss the claimed invention and the cited references, your interpretations of the cited references and the claim language, and your thoughts on how we can expedite prosecution of this case. If you have any questions prior to our interview, please feel free to give me a call.

To help facilitate the interview, I plan to use the attached file "number.jpg," and the screenshots of two example scenarios below to explain the claimed invention. If you drag and drop the "number.jpg" file onto your desktop, you should see the file representation "3" (black number 3 over a white background) on your desktop without even having to open up the file (similar to what is shown in the Time T0 screen scenario below).

I also plan to explain the claim limitations (e.g., claim 1) in the context of the scenarios below. Although I'll note the first two "receive" limitations of claim 1 (which involve (i) the server system receiving a copy of a first file from a first client device and (ii) the server system receiving, from the first client device, the first metadata associated with the updated version of the first file (generated from the user modifying the content of the file)), I plan to focus on the following later limitations of claim 1:

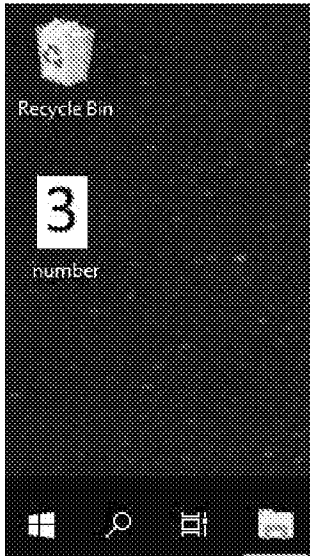
- based on the first priority (assigned to the first metadata) being greater than the second priority (assigned to the copy of the first file),
 - automatically transfer the first metadata over a network to a second client device associated with the user such that:
 - the first metadata is transferred to the second client device before the copy of the first file is transferred to the second client device,
- wherein, before the copy of the first file is transferred to the second client device:
 - the transfer of the first metadata to the second client device causes a file representation of the first file presented on a user interface of the second client device to be updated based on the first metadata, and
 - instead of the updated file representation of the first file representing a version of the first file currently stored on the second client device,
 - the updated file representation represents the updated version of the first file that is currently stored on the first client device and not currently stored on the second client device.

As I mentioned, we do not understand how Mohanty is being interpreted to teach at least the foregoing claim limitations.

Best,
Ngai

"Second Client Device" Screen at Time T0 (file representation shows image of "3")	"Second Client Device" Screen at Time T1 (updated file representation shows image of "4")
	After content of the first file ("number.jpg") on the first client device is modified, and the metadata associated with the updated version of the

The first file "number.jpg" at the first client device has not yet been modified.



first file is transferred from the server system to the second client device,
But before the copy of the first file (i.e., the updated version) is transferred to the second client device.



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Doc Code: DIST.E.FILE Document Description: Electronic Terminal Disclaimer - Filed		PTO/SB/26 U.S. Patent and Trademark Office Department of Commerce	
Electronic Petition Request	TERMINAL DISCLAIMER TO OBIATE A DOUBLE PATENTING REJECTION OVER A "PRIOR" PATENT		
Application Number	16750399		
Filing Date	23-Jan-2020		
First Named Inventor	Michael MANZANO		
Attorney Docket Number	023027-0509067		
Title of Invention	PRE-FILE-TRANSFER UPDATE BASED ON PRIORITIZED METADATA		
<input checked="" type="checkbox"/> Filing of terminal disclaimer does not obviate requirement for response under 37 CFR 1.111 to outstanding Office Action <input checked="" type="checkbox"/> This electronic Terminal Disclaimer is not being used for a Joint Research Agreement.			
Owner	Percent Interest		
Topia Technology	100%		
<p>The owner(s) with percent interest listed above in the instant application hereby disclaims, except as provided below, the terminal part of the statutory term of any patent granted on the instant application which would extend beyond the expiration date of the full statutory term of prior patent number(s)</p> <p>10289607 10067942 9143561</p> <p>as the term of said prior patent is presently shortened by any terminal disclaimer. The owner hereby agrees that any patent so granted on the instant application shall be enforceable only for and during such period that it and the prior patent are commonly owned. This agreement runs with any patent granted on the instant application and is binding upon the grantee, its successors or assigns.</p> <p>In making the above disclaimer, the owner does not disclaim the terminal part of the term of any patent granted on the instant application that would extend to the expiration date of the full statutory term of the prior patent, "as the term of said prior patent is presently shortened by any terminal disclaimer," in the event that said prior patent later:</p> <ul style="list-style-type: none"> - expires for failure to pay a maintenance fee; - is held unenforceable; - is found invalid by a court of competent jurisdiction; - is statutorily disclaimed in whole or terminally disclaimed under 37 CFR 1.321; - has all claims canceled by a reexamination certificate; - is reissued; or - is in any manner terminated prior to the expiration of its full statutory term as presently shortened by any terminal disclaimer. 			

☒ Terminal disclaimer fee under 37 CFR 1.20(d) is included with Electronic Terminal Disclaimer request.

☐ I certify, in accordance with 37 CFR 1.4(d)(4), that the terminal disclaimer fee under 37 CFR 1.20(d) required for this terminal disclaimer has already been paid in the above-identified application.

Applicant claims the following fee status:

☒ Small Entity

☐ Micro Entity

☐ Regular Undiscounted

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

THIS PORTION MUST BE COMPLETED BY THE SIGNATORY OR SIGNATORIES

I certify, in accordance with 37 CFR 1.4(d)(4) that I am:

☒ An attorney or agent registered to practice before the Patent and Trademark Office who is of record in this application

Registration Number 65473

☐ A sole inventor

☐ A joint inventor; I certify that I am authorized to sign this submission on behalf of all of the inventors as evidenced by the power of attorney in the application

☐ A joint inventor; all of whom are signing this request

Signature	/Ngai B. Zhang/
Name	Ngai B. Zhang

*Statement under 37 CFR 3.73(b) is required if terminal disclaimer is signed by the assignee (owner).
Form PTO/SB/96 may be used for making this certification. See MPEP § 324.

Electronic Patent Application Fee Transmittal

Application Number:	16750399			
Filing Date:	23-Jan-2020			
Title of Invention:	PRE-FILE-TRANSFER UPDATE BASED ON PRIORITIZED METADATA			
First Named Inventor/Applicant Name:	Michael R. MANZANO			
Filer:	Ngai Bing Zhang/Sarah Clarke			
Attorney Docket Number:	023027-0509067			
Filed as Small Entity				
Filing Fees for Utility under 35 USC 111(a)				
Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Basic Filing:				
STATUTORY OR TERMINAL DISCLAIMER	2814	1	160	160
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Extension-of-Time:				
Miscellaneous:				
Total in USD (\$)				160

Doc Code: DISQ.E.FILE

Document Description: Electronic Terminal Disclaimer – Approved

Application No.: 16750399

Filing Date: 23-Jan-2020

Applicant/Patent under Reexamination: MANZANO

Electronic Terminal Disclaimer filed on March 20, 2020

☒ APPROVED

This patent is subject to a terminal disclaimer

☐ DISAPPROVED

Approved/Disapproved by: Electronic Terminal Disclaimer automatically approved by EFS-Web

U.S. Patent and Trademark Office

Electronic Acknowledgement Receipt

EFS ID:	38927086
Application Number:	16750399
International Application Number:	
Confirmation Number:	9316
Title of Invention:	PRE-FILE-TRANSFER UPDATE BASED ON PRIORITIZED METADATA
First Named Inventor/Applicant Name:	Michael R. MANZANO
Customer Number:	909
Filer:	Ngai Bing Zhang/Sarah Clarke
Filer Authorized By:	Ngai Bing Zhang
Attorney Docket Number:	023027-0509067
Receipt Date:	20-MAR-2020
Filing Date:	23-JAN-2020
Time Stamp:	15:24:07
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	DA
Payment was successfully received in RAM	\$ 160
RAM confirmation Number	E20203JF24048443
Deposit Account	033975
Authorized User	Sarah Clarke

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

37 CFR 1.16 (National application filing, search, and examination fees)

37 CFR 1.17 (Patent application and reexamination processing fees)

Box & Dropbox Exhibit 1010

37 CFR 1.19 (Document supply fees)
 37 CFR 1.20 (Post Issuance fees)
 37 CFR 1.21 (Miscellaneous fees and charges)

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Terminal Disclaimer-Filed (Electronic)	eTerminal-Disclaimer.pdf	33815	no	2
			3da5ca9870f650d97a0d395f965a447fc7408d05		

Warnings:

Information:

2	Fee Worksheet (SB06)	fee-info.pdf	30404	no	2
			e254fbc4d6bc756f0b5d0df35c18c7ef0220c57c		

Warnings:

Information:

Total Files Size (in bytes):			64219
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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.

Electronic Acknowledgement Receipt

EFS ID:	38919909
Application Number:	16750399
International Application Number:	
Confirmation Number:	9316
Title of Invention:	PRE-FILE-TRANSFER UPDATE BASED ON PRIORITIZED METADATA
First Named Inventor/Applicant Name:	Michael R. MANZANO
Customer Number:	909
Filer:	Ngai Bing Zhang
Filer Authorized By:	
Attorney Docket Number:	023027-0509067
Receipt Date:	19-MAR-2020
Filing Date:	23-JAN-2020
Time Stamp:	22:36:38
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	First Action Interview - Schedule Interview request	Response.pdf	193752	no	13
			4953084a012c54757693f8dbd108deacf2f6ce82		

Warnings:

Box & Dropbox Exhibit 1010

Information:	
Total Files Size (in bytes):	193752
<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>	

IN THE UNITED STATES PATENT & TRADEMARK OFFICE

First Inventor:	Michael R. Manzano)	Attorney Docket No.:	023027-0509067
Serial No.:	16/750,399)	Confirmation No.:	9316
Filing Date:	January 23, 2020)	Examiner:	Srirama T. Channavajjala
)	Art Unit:	2157

For: PRE-FILE-TRANSFER UPDATE BASED ON PRIORITIZED METADATA

**RESPONSE TO PRE-INTERVIEW COMMUNICATION
MAILED MARCH 9, 2020**

MAIL STOP AMENDMENT

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

Dear Commissioner:

In response to the Pre-Interview Communication, please reconsider the above-identified application as follows:

Remarks begin on page 2 of this paper.

Proposed Claim Amendments begin on page 6 of this paper.

REMARKS

In connection with the March 19, 2020 Interview, during which discussed the claimed invention was discussed, below are our remarks with regard to the rejections set forth in the Pre-Interview Communication. In addition, attached are proposed claim amendments based on the examiner's suggestions during the Interview to expedite allowance of this case.

Double Patenting Rejection

Applicant respectfully notes the double patenting rejection and requests that the double patenting rejection be held in abeyance until the Examiner has indicated allowable subject matter. At such time, Applicant will determine whether the filing of a terminal disclaimer is appropriate. Moreover, Applicant notes that the filing of a Terminal Disclaimer to obviate a rejection based on non-statutory double patenting does not constitute an admission of the propriety of the rejection.

Applicant also respectfully notes that, although the Pre-Interview Communication alleges that certain claims of the instant application are not patentably distinct from certain patented claims, the Pre-Interview Communication fails to provide any rationale for the foregoing allegation. For example, the Pre-Interview Communication fails to provide any rationale for its allegation that claim 1 of the instant application is not patentably distinct from claim 1 of U.S. Patent No. 9,143,561 (the '561 patent) even though at least the following limitations of claim 1 of the instant application are not recited by claim 1 of the '561 patent:

receive, over a network, from the first client device, first metadata associated with the updated version of the first file that is generated from the user modifying the content of the first file, the first metadata being assigned a first priority greater than a second priority assigned to the copy of the first file; and

automatically transfer, based on the first priority being greater than the second priority, the first metadata over a network to a second client device associated with the user such that the first metadata is transferred to the second client device before the copy of the first file is transferred to the second client device,

wherein, before the copy of the first file is transferred to the second client device:

- (i) the transfer of the first metadata to the second client device causes a file representation of the first file presented on a user interface of the second client device to be updated based on the first metadata, and
- (ii) instead of the updated file representation of the first file representing a version of the first file currently stored on the second client device, the updated file representation represents the updated version of the first file that is currently stored on the first client device and not currently stored on the second client device.

Section 102 Rejection

Applicant respectfully traverses the Section 102 rejections at least because U.S. Patent Application Publication No. 2007/0180084 to Mohanty (“Mohanty”) fails to disclose, among other features, at least the following limitations of claim 1 (which are similarly recited by the other independent claims):

a server system [configured to]

receive, over a network, from the first client device, first metadata associated with the updated version of the first file that is generated from the user modifying the content of the first file, the first metadata being assigned a first priority greater than a second priority assigned to the copy of the first file; and

automatically transfer, based on the first priority being greater than the second priority, the first metadata over a network to a second client device associated with the user such that the first metadata is transferred to the second client device before the copy of the first file is transferred to the second client device,

wherein, before the copy of the first file is transferred to the second client device:

- (i) the transfer of the first metadata to the second client device causes a file representation of the first file presented on a user interface of the second client device to be updated based on the first metadata, and
- (ii) instead of the updated file representation of the first file representing a version of the first file currently stored on the second client device, the updated file representation represents the updated version of the first file that is currently stored on the first client device and not currently stored on the second client device.

For example, the Pre-Interview Communication relies on paragraphs 27-32 and 47 of Mohanty for allegedly teaching a computer system (e.g., a server system) that automatically transfers metadata associated with a copy of a file (received from a first client device) to the second client device prior to the copy of the file being transferred to the second device, where such transfer is based on the associated metadata being assigned a first priority greater than a second priority assigned to the copy the first file. Non-limiting examples of such metadata include, among other metadata, file size, file type/extension, modification time, access time, pixel dimensions, etc. In contrast to the foregoing limitations, however, Mohanty merely describes the use of rules and priorities to determine which instances of a file should prevail in the event of a conflict in the differences (e.g., changes) between the file instances. *See Mohanty* at ¶¶ 32, 51, 52. As such, Mohanty does not describe the assignment of a greater priority to metadata associated with a copy of a file (as compared to the priority assigned to the copy of the file), where the associated metadata is automatically transferred to a second client device prior to the copy of the first being transferred to the second client device based on the associated metadata being assigned the greater priority, in the manner recited by the claims.

As another example, the paragraphs of Mohanty cited by the Pre-Interview Communication (and other sections of Mohanty) fail to teach the claim limitations in which, “before the copy of the first file is transferred to the second client device: (i) the transfer of the first metadata to the second client device causes a file representation of the first file presented on a user interface of the second client device to be updated based on the first metadata,” much less also that “before the copy of the first file is transferred to the second client device: ... (ii) ... the updated file representation [presented on ... the second client device] represents the updated version of the first file that is currently stored on the first client device and not currently stored on the second client device” (or the further features of claims 2, 10, and 16). In particular, for example, the cited paragraphs merely describe determination of which version of a file to transfer from one device to another, recovery of old versions of a file, and synchronization rules and priority along with setting incremental and full backup options. *See Mohanty* at ¶¶ 32-33, 47, 50-54, 59, 60. Such description fails to teach the foregoing claim limitations.

CONCLUSION

Having addressed each of the foregoing rejections, it is respectfully submitted that a full and complete response has been made to the outstanding Pre-Interview Communication and, as such, the application is in condition for allowance. Notice to that effect is respectfully requested.

If the Examiner believes, for any reason, that personal communication will expedite prosecution of this application, the Examiner is invited to telephone the undersigned at the number provided.

Respectfully submitted,

PILLSBURY WINTHROP SHAW PITTMAN LLP

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Ngai B. Zhang
Registration No. 65,473

Date: March 19, 2020

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Proposed Claim Amendments

1. **(Currently Amended)** A system comprising:

a server system comprising one or more processors programmed with computer program instructions that, when executed, cause the server system to:

receive, over a network, a copy of a first file from a first client device associated with a user, wherein the copy of the first file is automatically received from the first client device responsive to the user modifying a content of the first file stored on the first client device, the copy of the first file being an updated version of the first file that is generated from the user modifying the content of the first file;

receive, over a network, from the first client device, first metadata associated with the updated version of the first file that is generated from the user modifying the content of the first file, the first metadata being assigned a first priority greater than a second priority assigned to the copy of the first file; and

automatically transfer, based on the first priority being greater than the second priority, the first metadata over a network to a second client device associated with the user such that the first metadata is transferred to the second client device before the copy of the first file is transferred to the second client device,

wherein, before the copy of the first file is transferred to the second client device:

(i) the transfer of the first metadata to the second client device causes a file representation of the first file presented on a user interface of the second client device to be updated based on the first metadata, and

(ii) instead of the updated file representation of the first file representing a version of the first file currently stored on the second client device, the updated file representation represents the updated version of the first file that is currently stored on the first client device and not currently stored on the second client device, and

wherein at least one of the server system or the first client device comprises a priority assignment configuration to assign greater priority to metadata associated with files than priority assigned to the files such that at least one of the server system or the first client device assigns the first priority to the first metadata and the second priority to the copy of the first file based on the priority assignment configuration.

2. **(Cancelled)**

3. **(Original)** The system of claim 1, wherein, before the copy of the first file is transferred to the second client device, the transfer of the first metadata to the second client device causes a graphical availability indication of the updated version of the first file to be presented on the user interface of the second client device based on the first metadata

4. **(Original)** The system of claim 1, wherein the computer program instructions, when executed, cause the server system to:

receive a copy of a second file from the second client device associated with the user, wherein the copy of the second file is automatically received from the second client device responsive to the user modifying a content of the second file stored on the second client device, the copy of the second file being an updated version of the second file that is generated from the user modifying the content of the second file;

determine that the server system is in communication with the first client device associated with the user; and

automatically transfer the copy of the second file to the first client device associated with the user to replace an older version of the second file stored on the first client device, responsive to (i) determining that the server system is in communication with the first client device and (ii) receiving the copy of the second file from the second client device.

5. **(Original)** The system of claim 1, wherein the copy of the first file is automatically received from the first client device responsive to (i) a push request of the first client device and (ii) the user modifying the content of the first file stored on the first client device.

6. **(Original)** The system of claim 1, wherein the copy of the first file is automatically received from a first application at the first client device, and wherein the first application comprises a runtime environment for one or more mobile-agent objects.

7. **(Original)** The system of claim 6, wherein the first application is configured to create a first mobile object, and wherein the first mobile object is configured to create a proxy object at the server system.

8. **(Original)** The system of claim 7, wherein the first mobile object is configured to provide the copy of the first file to the proxy object, and wherein the proxy object is configured to store the copy of the first file on a memory device associated with the server system.

9. **(Currently Amended)** A method being implemented by a server system comprising one or more processors executing computer program instructions that, when executed, perform the method, the method comprising:

receiving, over a network, a copy of a first file from a first client device associated with a user, wherein the copy of the first file is automatically received from the first client device responsive to the user modifying a content of the first file stored on the first client device, the copy of the first file being an updated version of the first file that is generated from the user modifying the content of the first file;

receiving, over a network, from the first client device, first metadata associated with the updated version of the first file that is generated from the user modifying the content of the first file, the first metadata being assigned a first priority greater than a second priority assigned to the copy of the first file; and

automatically transferring, based on the first priority being greater than the second priority, the first metadata over a network to a second client device associated with the user such that the first metadata is transferred to the second client device before the copy of the first file is transferred to the second client device,

wherein, before the copy of the first file is transferred to the second client device:

(i) the transfer of the first metadata to the second client device causes a file representation of the first file presented on a user interface of the second client device to be updated based on the first metadata, and

(ii) the updated file representation represents the updated version of the first file that is currently stored on the first client device and not currently stored on the second client device, and

wherein at least one of the server system or the first client device comprises a priority assignment configuration to assign greater priority to metadata associated with files than priority assigned to the files such that at least one of the server system or the first client device assigns the first priority to the first metadata and the second priority to the copy of the first file based on the priority assignment configuration.

10. **(Cancelled)**

11. **(Original)** The method of claim 9, wherein, before the copy of the first file is transferred to the second client device, the transfer of the first metadata to the second client device causes a

graphical availability indication of the updated version of the first file to be presented on the user interface of the second client device based on the first metadata

12. **(Original)** The method of claim 9, further comprising:

receiving a copy of a second file from the second client device associated with the user, wherein the copy of the second file is automatically received from the second client device responsive to the user modifying a content of the second file stored on the second client device, the copy of the second file being an updated version of the second file that is generated from the user modifying the content of the second file;

determining that the server system is in communication with the first client device associated with the user; and

automatically transferring the copy of the second file to the first client device associated with the user to replace an older version of the second file stored on the first client device, responsive to (i) determining that the server system is in communication with the first client device and (ii) receiving the copy of the second file from the second client device.

13. **(Original)** The method of claim 9, wherein the copy of the first file is automatically received from the first client device responsive to (i) a push request of the first client device and (ii) the user modifying the content of the first file stored on the first client device.

14. **(Original)** The method of claim 9, wherein the copy of the first file is automatically received from a first application at the first client device, wherein the first application comprises a runtime environment for one or more mobile-agent objects, wherein the first application is configured to create a first mobile object, wherein the first mobile object is configured to create a proxy object at the server system, wherein the first mobile object is configured to provide the

copy of the first file to the proxy object, and wherein the proxy object is configured to store the copy of the first file on a memory device associated with the server system.

15. **(Currently Amended)** One or more non-transitory machine-readable media storing instructions that, when executed by one or more processors of a server system, cause operations comprising:

receiving, over a network, a copy of a first file from a first client device associated with a user, wherein the copy of the first file is automatically received from the first client device responsive to the user modifying a content of the first file stored on the first client device, the copy of the first file being an updated version of the first file that is generated from the user modifying the content of the first file;

receiving, over a network, from the first client device, first metadata associated with the updated version of the first file that is generated from the user modifying the content of the first file, the first metadata being assigned a first priority greater than a second priority assigned to the copy of the first file; and

automatically transferring, based on the first priority being greater than the second priority, the first metadata over a network to a second client device associated with the user such that the first metadata is transferred to the second client device before the copy of the first file is transferred to the second client device,

wherein, before the copy of the first file is transferred to the second client device:

(i) the transfer of the first metadata to the second client device causes a file representation of the first file presented on a user interface of the second client device to be updated based on the first metadata, and

(ii) the updated file representation represents the updated version of the first file that is currently stored on the first client device and not currently stored on the second client device, and

wherein at least one of the server system or the first client device comprises a priority assignment configuration to assign greater priority to metadata associated with files than priority assigned to the files such that at least one of the server system or the first client device assigns the first priority to the first metadata and the second priority to the copy of the first file based on the priority assignment configuration.

16. **(Cancelled)**

17. **(Original)** The media of claim 15, wherein, before the copy of the first file is transferred to the second client device, the transfer of the first metadata to the second client device causes an availability indication of the updated version of the first file to be presented on the user interface of the second client device based on the first metadata

18. **(Original)** The media of claim 15, the operations further comprising:

receiving a copy of a second file from the second client device associated with the user, wherein the copy of the second file is automatically received from the second client device responsive to the user modifying a content of the second file stored on the second client device, the copy of the second file being an updated version of the second file that is generated from the user modifying the content of the second file;

determining that the server system is in communication with the first client device associated with the user; and

automatically transferring the copy of the second file to the first client device associated with the user to replace an older version of the second file stored on the first client device, responsive to (i) determining that the server system is in communication with the first client device and (ii) receiving the copy of the second file from the second client device.

19. **(Original)** The media of claim 15, wherein the copy of the first file is automatically received from the first client device responsive to (i) a push request of the first client device and (ii) the user modifying the content of the first file stored on the first client device.

20. **(Original)** The media of claim 15, wherein the copy of the first file is automatically received from a first application at the first client device, wherein the first application comprises a runtime environment for one or more mobile-agent objects, wherein the first application is configured to create a first mobile object, wherein the first mobile object is configured to create a proxy object at the server system, wherein the first mobile object is configured to provide the copy of the first file to the proxy object, and wherein the proxy object is configured to store the copy of the first file on a memory device associated with the server system.



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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
16/750,399	01/23/2020	Michael R. MANZANO	023027-0509067	9316

909 7590 03/09/2020
Pillsbury Winthrop Shaw Pittman, LLP
PO Box 10500
McLean, VA 22102

EXAMINER

CHANNAVAJJALA, SRIRAMA T

ART UNIT	PAPER NUMBER
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2157

NOTIFICATION DATE	DELIVERY MODE
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03/09/2020

ELECTRONIC

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

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

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

docket_ip@pillsburylaw.com

First Action Interview Pilot Program Pre-Interview Communication	Application No. 16/750,399	Applicant(s) MANZANO, Michael R.	
	Examiner Srirama T Channavajjala	Art Unit 2157	AIA (FITF) Status No

-The MAILING OR NOTIFICATION DATE of this communication appears on the cover sheet with the correspondence address -
 THE SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE **ONE MONTH OR THIRTY (30) DAYS**,
 WHICHEVER IS LONGER, FROM THE MAILING OR NOTIFICATION DATE OF THIS COMMUNICATION.

This time period for reply is extendable under 37 CFR 1.136(a) for only ONE additional MONTH.
This communication constitutes notice under 37 CFR 1.136(a)(1)(i).

Applicant must, within the time period for reply, file: (1) A letter requesting not to have a first action interview; (2) A reply under 37 CFR 1.111 waiving the first action interview and First Action Interview Office Action; or (3) An Applicant Initiated Interview Request Form (PTOL-413A) electronically via EFS-Web, accompanied by a proposed amendment or arguments, and schedule the interview within 2 months from the filing of the request. A failure to respond to this communication will be treated as a request not to have an interview. If applicant waives the First Action Interview Office Action, the instant Pre-Interview Communication is deemed the first Office Action on the Merits. The next subsequent Office action may be made final if appropriate. See MPEP 706.07(a).

Status

1) ☒ Responsive to communication(s) filed on 1/23/2020 .
☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on ____ .

Disposition of Claims

2) ☒ Claim(s) 1-20 is/are pending in the application.
 2a) Of the above claim(s) ____ is/are withdrawn from consideration.

3) ☐ Claim(s) ____ is/are allowed.
 4) ☒ Claim(s) 1-20 is/are rejected.
 5) ☐ Claim(s) ____ is/are objected to.
 6) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

7) ☐ The specification is objected to by the Examiner.
 8) ☒ The drawing(s) filed on 1/23/2020 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

Priority under 35 U.S.C. § 119

9) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 a) ☐ All b) ☐ Some * c) ☐ None of:

1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. ____ .
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

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

Contact Information

Examiner's Telephone Number: (571)272-4108
 Examiner's Typical Work Schedule: 7.30 AM-4.00 PM

Supervisor's Name: Trujillo James Supervisor's Telephone Number: 5712723677

Attachment(s) 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) 2) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date <u>1/23/2020</u> .	3) <input type="checkbox"/> Interview Summary (PTO-413) Paper No(s)/Mail Date. ____ . 4) <input checked="" type="checkbox"/> Other: <u>Double patent rejection</u> .
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First Action Interview Pilot Program Pre-Interview Communication				Application No. 16/750,399		Applicant(s) MANZANO, Michael R.	
				Examiner Srirama T Channavajjala		Art Unit 2157	AIA (FITF) Status No
Notification of Rejection(s) and/or Objection(s)							
#	Claim(s)	Reference(s) (if applicable)	Rejection Statutory Basis	Brief Explanation of Rejection			
1	1,9 and 15	9143561,1006794 2;1028967	double patent	See attached sheets -nonstatutory double patenting rejection and provisional nonstatutory double patenting rejection			
2	1-20	US2007/0180084	102(e,a)	Claims 1,9,15,Mohanty disclosed "A system" (fig 1A); "a server system....."(fig 1A-1B,element 12,18,22);"receive,over a network(fig 1,element 20) a copy of the first file....version of the first file that.....content of the first file" (0029-0030,0034-0035);"receive,over a network(fig 1, ele 20),			
2	1,9 and 15	US2007/0180084		from the client device (fig 1, element 18), first metadata associated.....updated version(0028-0029),first metadata being assigned....priority assigned to the copy ...file"(0031-0032);" automatically transfer (0008) based on the first priority.....metadata over a network (0027,0047) second client.....			
2	1,9 and 15	US2007/0180084		device (fig 1,fig 3, 0047,0050-0054); wherein,...(i)the transfer of theuser interface of the second.....first metadata(0034-0035, 0044); (ii) instead of the updated file.....version of the first file currently stored.....second client device.(fig 1, fig 3,page 7, 0059, page 8, 0060).			
3	2,10,16	US2007/0180084		Claim 2,10,16, Mohanty disclosed "wherein at least one of the server system...client device (fig 1) comprises a priority.....assigned to the first priority to the first metadata (0032-0033)and the second priorityassignment configuration(0032,0051)			

Expanded Discussion/Commentary		
4		Claims 3,11,17, Mohanty disclosed "wherein.....second client device, the transfer of.....updated version of the first file.....on the first metadata (0027,0047,0050). Claim 4,12,18, Mohanty disclosed "receive a copy of a second file.....second client device(fig 1, fig 3,0029, 0030)responsive to the user modifyingthe content of the second file"(0034-0035,0054);determine that the server system is in communication.....user (fig 1A-1C);" automatically transfer.....first client device(0008,0027-0028)(i)determining that thecommunication with the first client device (fig 1C);
4		(ii)receivng the copy....second client device(fig 1B-1C,0030-0031)
5		Claim 5,13,19,Mohanty disclosed "wherein the copy....client device responsive (fig 1A-1C) (i)push request of the...client device"(0026);(ii)the user modifying the content of theclient device" (0040-0041)..
6		Claim 6, Mohanty disclosed "wherein the copyfirst client device,and wherein theone or more mobile-agent objects" (0025-0026) Claim 7, Mohanty disclosed "wherein the first application.....mobile object is configured to create....server system (fig 1A-1C, 0026,0028) Claim 8, Mohanty disclosed "wherein the first mobile object.....configured to store the copy of the first.....with the server system"(0052-0053)
7.		claim 14,20 limitations are rejected in combination of claim 6-8
DATE: 03 March 2020		/Srirama Channavajjala/ Primary Examiner, Art Unit 2157

U.S.Patent and Trademark Office

PTOL-413FP (Rev. 08-13)

First Action Interview Pilot Program - Pre-Interview Communication Part of Paper No./Mail Date 20200303

<i>Notice of References Cited</i>	Application/Control No. 16/750,399		Applicant(s)/Patent Under Reexamination MANZANO, Michael R.	
	Examiner Srirama T Channavajjala		Art Unit 2157	Page 1 of 1

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	CPC Classification	US Classification
*	A	US-20070180084-A1	08-2007	Mohanty; Subhashis	G06F11/1451	709/223
*	B	US-10289607-B2	05-2019	Manzano; Michael R.	H04L67/1095	1/1
*	C	US-10067942-B2	09-2018	Manzano; Michael R.	H04L67/1095	1/1
*	D	US-9143561-B2	09-2015	Manzano; Michael R.	H04L67/1095	1/1
*	E	US-20040031027-A1	02-2004	Hiltgen, Daniel K.	G06F8/65	717/170
*	F	US-7529778-B1	05-2009	Dewey; Brian K.	G06F11/1451	1/1
*	G	US-7707165-B1	04-2010	Jiang; Tianyu	G06F16/10	707/806
*	H	US-8874534-B2	10-2014	March; Roger	G06F11/1435	707/695
*	I	US-8504519-B1	08-2013	Sachs; Robert R.	G06F8/71	707/616
	J					
	K					
	L					
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FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	CPC Classification
	N					
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NON-PATENT DOCUMENTS

*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
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*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)
Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.

<i>Search Notes</i> 	Application/Control No. 16/750,399	Applicant(s)/Patent Under Reexamination MANZANO, Michael R.
	Examiner Srirama T Channavajjala	Art Unit 2157

CPC - Searched*		
Symbol	Date	Examiner
G06F 16/178;27;128;182;1844;176;10;1873;13;152;164	03/03/2020	sc

CPC Combination Sets - Searched*		
Symbol	Date	Examiner

US Classification - Searched*			
Class	Subclass	Date	Examiner

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

Search Notes		
Search Notes	Date	Examiner
Inventor searched	03/03/2020	sc
PLUS search	03/03/2020	sc
google search attached	03/03/2020	sc
IP.COM search attached	03/03/2020	sc
EAST search attached	03/03/2020	sc

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

/Srirama Channavajjala/ Primary Examiner, Art Unit 2157	
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EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
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L8	53	L7 and (copy\$3 near5 file\$1)	USPAT	OR	OFF	2020/03/03 14:19
L9	43	L7 and (copy\$3 near5 file\$1) and (receiv\$3 near5 file\$1)	USPAT	OR	OFF	2020/03/03 14:19
L12	33	(file\$1 and version\$1).ti. and @py<="2007"	USPAT	OR	OFF	2020/03/03 14:19
L13	3	L12 AND (Y10S707/99954 OR Y10S707/99953 OR G06F16/10 OR Y10S707/99952 OR G06F8/71 OR G06F11/1435 OR G06F16/1873 OR Y10S707/99931 OR G06F11/1448 OR G06F16/178 OR G06F16/9574 OR G06F17/24 OR G06F21/6209 OR G06F21/6218 OR G06F21/6227 OR G06F2221/2147 OR Y10S707/99936 OR Y10S707/99942 OR G06F11/006 OR G06F11/10 OR G06F11/1466 OR G06F11/1662 OR G06F11/183 OR G06F11/187 OR G06F16/137 OR G06F16/182 OR G06F16/1865 OR G06F16/9014 OR G06F16/9577 OR G06F2003/0697 OR G06F21/57 OR G06F21/64 OR G06F2201/84 OR G06F2221/2107 OR G06F3/0482 OR G06F3/0601 OR G06F3/0626 OR G06F3/0643 OR G06F3/0674 OR G06F3/1204 OR G06F3/1244 OR G06F3/1284 OR G06F3/1285 OR G06F8/61 OR G06F8/65 OR G06F9/451 OR G06F9/454).CPC.) and metadata	USPAT	OR	OFF	2020/03/03 14:19
L15	51	L14 and (file\$1 near5 metadata)	USPAT	OR	OFF	2020/03/03 14:19

EAST Search History (Prior Art)

L16	12	L15 AND ((Y10S707/99953 OR G06F16/10 OR Y10S707/99938 OR Y10S707/99954 OR Y10S707/99952 OR G06F8/71 OR Y10S707/99939 OR Y10S707/99955 OR G06F16/958 OR Y10S707/99943 OR G06F11/1435 OR Y10S707/99931 OR Y10S707/99933 OR Y10S707/99934 OR Y10S707/99942 OR Y10S707/99945 OR G06F11/1451 OR G06F11/1464 OR G06F16/2343 OR G06F2201/84 OR G06F8/20 OR G06F11/1441 OR G06F11/1448 OR G06F11/1461 OR G06F11/2097 OR G06F16/128 OR G06F16/1724 OR G06F16/21 OR G06F16/252 OR Y10S707/922 OR Y10S707/959 OR G06F11/008 OR G06F11/1096 OR G06F11/14 OR G06F11/1453 OR G06F11/1458 OR G06F11/1466 OR G06F11/1469 OR G06F11/1662 OR G06F11/203 OR G06F11/2074 OR G06F11/3664 OR G06F16/119 OR G06F16/137 OR G06F16/148 OR G06F16/152 OR G06F16/172 OR G06F16/1734 OR G06F16/176 OR G06F16/1767 OR G06F16/178 OR G06F16/1787 OR G06F16/182 OR G06F16/1824 OR G06F16/1865 OR G06F16/1873 OR G06F16/20 OR G06F16/93 OR G06F17/50 OR G06F2003/0697 OR G06F2201/80 OR G06F2201/815 OR G06F2201/83 OR G06F2217/04 OR G06F3/0601 OR G06F3/0611 OR G06F3/0643 OR G06F3/065 OR G06F3/067).CPC.) and priority	USPAT	OR	OFF	2020/03/03 14:19
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EAST Search History (Prior Art)

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EAST Search History (Prior Art)

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L22	22	(document\$1 and version\$1 and copy).ab. and @py<="2007"	USPAT	OR	OFF	2020/03/03 14:19
L23	21	(version\$1 and document\$1).ti. and @py<="2007"	USPAT	OR	OFF	2020/03/03 14:19
L24	1	"10289607".pn.	USPAT	OR	OFF	2020/03/03 14:19

EAST Search History (Prior Art)

L25	6	11 AND ((G06F8/71 OR G06F16/10 OR G06F16/1873 OR G06F11/1435 OR Y10S707/99952 OR G06F16/178 OR G06F16/27 OR G06F16/182 OR G06F16/1844 OR G06F21/6218 OR G06F11/1448 OR G06F11/1451 OR G06F12/0246 OR G06F16/176 OR G06F16/1847 OR G06F21/6209 OR G06F21/6227 OR G06F2201/84 OR G06F2221/2147 OR G06F3/064 OR G06F3/0643 OR G06F40/166 OR G06F8/658 OR G06Q10/10 OR H04N2201/325 OR Y10S707/99931 OR Y10S707/99936 OR G06F11/1446 OR G06F11/1453 OR G06F16/137 OR G06F16/184 OR G06F16/9014 OR G06F16/9574 OR G06F2212/7201 OR G06F2212/7209 OR G06F3/0619 OR G06F3/0679 OR G06F3/0688 OR G06F3/1204 OR G06F3/1285 OR G06F8/423 OR G06F8/65 OR G06F9/44552 OR G06F9/454 OR G06F9/45516 OR G06Q10/107 OR G06T2200/16 OR G06F16/13 OR G06F16/152 OR G06F16/164 OR G06F16/93 OR G06F16/955 OR G06F16/9577).CPC.) and (priority near5 file\$1)	USPAT	OR	OFF	2020/03/03 14:31
L26	30	11 AND ((G06F8/71 OR G06F16/10 OR G06F16/1873 OR G06F11/1435 OR Y10S707/99952 OR G06F16/178 OR G06F16/27 OR G06F16/182 OR G06F16/1844 OR G06F21/6218 OR G06F11/1448 OR G06F11/1451 OR G06F12/0246 OR G06F16/176 OR G06F16/1847 OR G06F21/6209 OR G06F21/6227 OR G06F2201/84 OR G06F2221/2147 OR G06F3/064 OR G06F3/0643 OR G06F40/166 OR G06F8/658 OR G06Q10/10 OR H04N2201/325 OR Y10S707/99931 OR Y10S707/99936 OR G06F11/1446 OR G06F11/1453 OR G06F16/137 OR G06F16/184 OR G06F16/9014 OR G06F16/9574 OR G06F2212/7201 OR G06F2212/7209 OR G06F3/0619 OR G06F3/0679 OR G06F3/0688 OR G06F3/1204 OR G06F3/1285 OR G06F8/423 OR G06F8/65 OR G06F9/44552 OR G06F9/454 OR G06F9/45516 OR G06Q10/107 OR G06T2200/16 OR G06F16/13 OR G06F16/152 OR G06F16/164 OR G06F16/93 OR G06F16/955 OR G06F16/9577).CPC.) and (modify\$3 near5 file\$1)	USPAT	OR	OFF	2020/03/03 14:32

EAST Search History (Prior Art)

L27	13	11 AND ((G06F8/71 OR G06F16/10 OR G06F16/1873 OR G06F11/1435 OR Y10S707/99952 OR G06F16/178 OR G06F16/27 OR G06F16/182 OR G06F16/1844 OR G06F21/6218 OR G06F11/1448 OR G06F11/1451 OR G06F12/0246 OR G06F16/176 OR G06F16/1847 OR G06F21/6209 OR G06F21/6227 OR G06F2201/84 OR G06F2221/2147 OR G06F3/064 OR G06F3/0643 OR G06F40/166 OR G06F8/658 OR G06Q10/10 OR H04N2201/325 OR Y10S707/99931 OR Y10S707/99936 OR G06F11/1446 OR G06F11/1453 OR G06F16/137 OR G06F16/184 OR G06F16/9014 OR G06F16/9574 OR G06F2212/7201 OR G06F2212/7209 OR G06F3/0619 OR G06F3/0679 OR G06F3/0688 OR G06F3/1204 OR G06F3/1285 OR G06F8/423 OR G06F8/65 OR G06F9/44552 OR G06F9/454 OR G06F9/45516 OR G06Q10/107 OR G06T2200/16 OR G06F16/13 OR G06F16/152 OR G06F16/164 OR G06F16/93 OR G06F16/955 OR G06F16/9577).CPC.) and (modify\$3 near5 file\$1) and (file\$1 near5 metadata)	USPAT	OR	OFF	2020/03/03 14:32
L28	10	11 AND ((G06F8/71 OR G06F16/10 OR G06F16/1873 OR G06F11/1435 OR Y10S707/99952 OR G06F16/178 OR G06F16/27 OR G06F16/182 OR G06F16/1844 OR G06F21/6218 OR G06F11/1448 OR G06F11/1451 OR G06F12/0246 OR G06F16/176 OR G06F16/1847 OR G06F21/6209 OR G06F21/6227 OR G06F2201/84 OR G06F2221/2147 OR G06F3/064 OR G06F3/0643 OR G06F40/166 OR G06F8/658 OR G06Q10/10 OR H04N2201/325 OR Y10S707/99931 OR Y10S707/99936 OR G06F11/1446 OR G06F11/1453 OR G06F16/137 OR G06F16/184 OR G06F16/9014 OR G06F16/9574 OR G06F2212/7201 OR G06F2212/7209 OR G06F3/0619 OR G06F3/0679 OR G06F3/0688 OR G06F3/1204 OR G06F3/1285 OR G06F8/423 OR G06F8/65 OR G06F9/44552 OR G06F9/454 OR G06F9/45516 OR G06Q10/107 OR G06T2200/16 OR G06F16/13 OR G06F16/152 OR G06F16/164 OR G06F16/93 OR G06F16/955 OR G06F16/9577).CPC.) and (modify\$3 near5 file\$1) and (file\$1 near5 metadata) and (updat\$3 near5 version\$1)	USPAT	OR	OFF	2020/03/03 14:33

EAST Search History (Prior Art)

L29	4	11 AND ((G06F8/71 OR G06F16/10 OR G06F16/1873 OR G06F11/1435 OR Y10S707/99952 OR G06F16/178 OR G06F16/27 OR G06F16/182 OR G06F16/1844 OR G06F21/6218 OR G06F11/1448 OR G06F11/1451 OR G06F12/0246 OR G06F16/176 OR G06F16/1847 OR G06F21/6209 OR G06F21/6227 OR G06F2201/84 OR G06F2221/2147 OR G06F3/064 OR G06F3/0643 OR G06F40/166 OR G06F8/658 OR G06Q10/10 OR H04N2201/325 OR Y10S707/99931 OR Y10S707/99936 OR G06F11/1446 OR G06F11/1453 OR G06F16/137 OR G06F16/184 OR G06F16/9014 OR G06F16/9574 OR G06F2212/7201 OR G06F2212/7209 OR G06F3/0619 OR G06F3/0679 OR G06F3/0688 OR G06F3/1204 OR G06F3/1285 OR G06F8/423 OR G06F8/65 OR G06F9/44552 OR G06F9/454 OR G06F9/45516 OR G06Q10/107 OR G06T2200/16 OR G06F16/13 OR G06F16/152 OR G06F16/164 OR G06F16/93 OR G06F16/955 OR G06F16/9577).CPC.) and (modify\$3 near5 file\$1) and (file\$1 near5 metadata) and (updat\$3 near5 version\$1) and (file\$1 near5 transfer\$3)	USPAT	OR	OFF	2020/03/03 14:35
L30	39	11 and (copy\$3 near5 file\$1) and (receiv\$3 near5 file\$1)	USPAT	OR	OFF	2020/03/03 15:13
L31	14	11 AND ((G06F8/71 OR G06F16/10 OR G06F16/1873 OR G06F11/1435 OR Y10S707/99952 OR G06F16/178 OR G06F16/27 OR G06F16/182 OR G06F16/1844 OR G06F21/6218 OR G06F11/1448 OR G06F11/1451 OR G06F12/0246 OR G06F16/176 OR G06F16/1847 OR G06F21/6209 OR G06F21/6227 OR G06F2201/84 OR G06F2221/2147 OR G06F3/064 OR G06F3/0643 OR G06F40/166 OR G06F8/658 OR G06Q10/10 OR H04N2201/325 OR Y10S707/99931 OR Y10S707/99936 OR G06F11/1446 OR G06F11/1453 OR G06F16/137 OR G06F16/184 OR G06F16/9014 OR G06F16/9574 OR G06F2212/7201 OR G06F2212/7209 OR G06F3/0619 OR G06F3/0679 OR G06F3/0688 OR G06F3/1204 OR G06F3/1285 OR G06F8/423 OR G06F8/65 OR G06F9/44552 OR G06F9/454 OR G06F9/45516 OR G06Q10/107 OR G06T2200/16 OR G06F16/13 OR G06F16/152 OR G06F16/164 OR G06F16/93 OR G06F16/955 OR G06F16/9577).CPC.) and (modify\$3 near5 file\$1) and metadata	USPAT	OR	OFF	2020/03/03 15:51

EAST Search History (Prior Art)

L32	1	11 AND ((G06F8/71 OR G06F16/10 OR G06F16/1873 OR G06F11/1435 OR Y10S707/99952 OR G06F16/178 OR G06F16/27 OR G06F16/182 OR G06F16/1844 OR G06F21/6218 OR G06F11/1448 OR G06F11/1451 OR G06F12/0246 OR G06F16/176 OR G06F16/1847 OR G06F21/6209 OR G06F21/6227 OR G06F2201/84 OR G06F2221/2147 OR G06F3/064 OR G06F3/0643 OR G06F40/166 OR G06F8/658 OR G06Q10/10 OR H04N2201/325 OR Y10S707/99931 OR Y10S707/99936 OR G06F11/1446 OR G06F11/1453 OR G06F16/137 OR G06F16/184 OR G06F16/9014 OR G06F16/9574 OR G06F2212/7201 OR G06F2212/7209 OR G06F3/0619 OR G06F3/0679 OR G06F3/0688 OR G06F3/1204 OR G06F3/1285 OR G06F8/423 OR G06F8/65 OR G06F9/44552 OR G06F9/454 OR G06F9/45516 OR G06Q10/107 OR G06T2200/16 OR G06F16/13 OR G06F16/152 OR G06F16/164 OR G06F16/93 OR G06F16/955 OR G06F16/9577).CPC.) and (modify\$3 near5 file\$1) and metadata and proxy	USPAT	OR	OFF	2020/03/03 15:52
L33	33	(file\$1 and version\$1).ti. and @py<="2007"	USPAT	OR	OFF	2020/03/03 15:53

EAST Search History (Prior Art)

L34	2	33 AND ((G06F16/10 OR G06F8/71 OR G06F16/178 OR G06F16/9574 OR G06F21/6209 OR G06F21/6218 OR G06F21/6227 OR G06F2221/2147 OR G06F40/166 OR G06Q10/10 OR G06T2200/16 OR G06T2210/32 OR Y10S707/99936 OR Y10S707/99942 OR G06F11/006 OR G06F11/10 OR G06F11/1466 OR G06F11/1662 OR G06F11/183 OR G06F11/187 OR G06F16/128 OR G06F16/137 OR G06F16/181 OR G06F16/182 OR G06F16/1865 OR G06F16/9014 OR G06F16/9577 OR G06F2003/0697 OR G06F21/57 OR G06F21/64 OR G06F2201/84 OR G06F2221/2107 OR G06F3/0482 OR G06F3/0601 OR G06F3/0626 OR G06F3/0643 OR G06F3/0674 OR G06F3/1204 OR G06F3/1244 OR G06F3/1284 OR G06F3/1285 OR G06F8/61 OR G06F8/65 OR G06F9/451 OR G06F9/454 OR G06Q10/107 OR H04L51/00 OR H04L67/34 OR H04N1/00212 OR H04N1/00222 OR H04N1/00233 OR H04N1/00307 OR H04N1/32122 OR H04N2201/0015 OR H04N2201/0039 OR H04N2201/0049 OR H04N2201/0055 OR H04N2201/0081 OR H04N2201/0089 OR H04N2201/3249 OR H04N2201/325 OR H04N2201/3266 OR H04N2201/3273 OR H04N2201/3278 OR Y10S707/915 OR Y10S707/99938 OR Y10S707/99943 OR Y10S707/99944 OR Y10S707/99945 OR Y10S707/99955 OR Y10S707/99956).CPC.) and (client near5 device\$1)	USPAT	OR	OFF	2020/03/03 15:57
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EAST Search History (Prior Art)

L35	2	33 AND ((G06F16/10 OR G06F8/71 OR G06F16/178 OR G06F16/9574 OR G06F21/6209 OR G06F21/6218 OR G06F21/6227 OR G06F2221/2147 OR G06F40/166 OR G06Q10/10 OR G06T2200/16 OR G06T2210/32 OR Y10S707/99936 OR Y10S707/99942 OR G06F11/006 OR G06F11/10 OR G06F11/1466 OR G06F11/1662 OR G06F11/183 OR G06F11/187 OR G06F16/128 OR G06F16/137 OR G06F16/181 OR G06F16/182 OR G06F16/1865 OR G06F16/9014 OR G06F16/9577 OR G06F2003/0697 OR G06F21/57 OR G06F21/64 OR G06F2201/84 OR G06F2221/2107 OR G06F3/0482 OR G06F3/0601 OR G06F3/0626 OR G06F3/0643 OR G06F3/0674 OR G06F3/1204 OR G06F3/1244 OR G06F3/1284 OR G06F3/1285 OR G06F8/61 OR G06F8/65 OR G06F9/451 OR G06F9/454 OR G06Q10/107 OR H04L51/00 OR H04L67/34 OR H04N1/00212 OR H04N1/00222 OR H04N1/00233 OR H04N1/00307 OR H04N1/32122 OR H04N2201/0015 OR H04N2201/0039 OR H04N2201/0049 OR H04N2201/0055 OR H04N2201/0081 OR H04N2201/0089 OR H04N2201/3249 OR H04N2201/325 OR H04N2201/3266 OR H04N2201/3273 OR H04N2201/3278 OR Y10S707/915 OR Y10S707/99938 OR Y10S707/99943 OR Y10S707/99944 OR Y10S707/99945 OR Y10S707/99955 OR Y10S707/99956).CPC.) and (client near5 device\$1)and network\$3	USPAT	OR	OFF	2020/03/03 15:57
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25. Server system and update method thereof

- ▣ A server system and an updating method of firmware are provided, and the updating method includes: acquiring a configuration file which includes firmware packet data which corresponds to a node in the server system; sending a notification signal to a web server of the node described in the...

CURRENT ASSIGNEES: INVENTEC PNEUMATIC TECH CORP (+1)
US20150149889 | US APPLICATIONS | 28-MAY-2015

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29. Devices, systems and methods for tracking and upgrading firmware in intelligent electronic devices

- ▣ The present disclosure is directed to devices, systems and methods for tracking and upgrading firmware in intelligent electronic devices (IEDs). The present disclosure provides for tracking firmware versions of at least one of a fleet of IEDs, e.g., electronic power or revenue meters, notifying a...

CURRENT ASSIGNEES: ELECTRO-IND GAUGETECH INC
US20200012488 | US APPLICATIONS | 09-JAN-2020

*** 59

30. Method and apparatus for reliable and scalable distribution of data files in distributed networks

- ▣ **CURRENT ASSIGNEES:** NETAPP INC

EP130592481 | EPO PATENTS | 01-MAR-2010

*** 60

34. Method and apparatus for server share migration and server recovery using hierarchical storage management

- ▣ The present invention provides systems and methods for transferring a set of files. Metadata and stub files associated with the set of files are received at a destination fileserver. a location component in the destination fileserver is updated to maintain a list of repository nodes associated with...

CURRENT ASSIGNEES: EXAGRID SYS INC
US7553966 | US PATENTS | 22-SEP-2005

*** 61

18	<p>A list of various versions of file sets that need to be reconciled (collisions) are automatically loaded into a collision handler. The user works through the list, resolving differences by selecting one of the files or by merging several of them through selection and modification, as required. The...</p> <p>CURRENT ASSIGNEES: INTL BUSINESS MACHINES CORP JP5638522B2 JAPAN PATENTS 16-MAR-2005</p>	★★★★
19	<p>Collaborative file update system</p> <p>The disclosed method facilitates collaborative updating of files and data is received and stored from one of a plurality of users. This data represents the initial version of the file and specifies one or more recipients of the initial version. Then, for each sequential update version of the file...</p> <p>CURRENT ASSIGNEES: CA INC. JP2607537B1A JAPAN APPLICATIONS 05-NOV-2007</p>	★★★
20	<p>Automatic file versioning</p> <p>A method and system are provided to automatically and transparently version files across many desktop applications without requiring the user to take specific action to cause the versioning to occur. Previous versions and versioning information can both be stored using hard links, and the versioning...</p> <p>CURRENT ASSIGNEES: INTERSET INC. US6050024G74 US APPLICATIONS 22-JAN-2005</p>	★★★★
21	<p>Method for instantaneous generation of file version</p> <p>The invention relates to instant generating the file version the method of. The method uses computer system for interception of user the operation of document the document the document the version comparing the judgment of the two there is not change if the change of the computer system will be the...</p> <p>CURRENT ASSIGNEES: YINGTEGA CO LTD CN1328185A CHINA APPLICATIONS 12-DEC-2001</p>	★★★
22	<p>Application-managed file versioning</p> <p>In accordance with one or more aspects of the application-managed file versioning, a request to store a new version of a file is received from an application, the request having been generated by the application. A filename for the new version of the file is generated, derived from a standardized...</p> <p>CURRENT ASSIGNEES: MICROSOFT TECH LICENSING LLC US2005008 US PATENTS 07-OCT-2004</p>	★★★★
23	<p>Method for managing versions of electronic file</p> <p>PROBLEM TO BE SOLVED: To provide a method for managing first and second versions of an electronic file. The method recognizes first and second versions of an electronic file and initiates a synchronization event. An application program interface accesses the first version and the second version...</p> <p>CURRENT ASSIGNEES: MICROSOFT CORP JP2004265430A JAPAN APPLICATIONS 24-SEP-2004</p>	★★★★
24	<p>LyFS, A Lightweight File Versioning Tool for General Binary Files</p> <p>Current source code version control systems can deal with the multiple versions of files containing text content such as source code or plain text. However, it needs a general tool for the versioning control for binary files such as office documents. The multiple version file systems can handle the...</p> <p>IEEE, Xplore IEEE CONFERENCES 01-APR-2015 2015 2nd International Conference on Information Science and Control Engineering (Page(s): 286-288)</p>	★★★
25	<p>Techniques for retaining security restrictions with file versioning</p> <p>Techniques are presented for retaining security restrictions with file versioning. Files are versioned in such a manner that metadata including full directory paths and access restrictions are retained for each version of the file and enforced when each version is accessed. The files are versioned...</p> <p>CURRENT ASSIGNEES: NIXTEL INC. US2005509 US PATENTS 16-JAN-2002</p>	★★★



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Date · Priority ·

YYYY-MM-DD — YYYY-MM-DD

+ Inventor

+ Assignee

Patent Office · Language ·

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Method, apparatus, system, and program product for attaching files and other ...

US · [US2009076482](#) · Robert A. Brodersen · Siebel Systems, Inc.

Priority 1998-03-03 · Filed 2003-10-29 · Granted 2009-08-26 · Published 2009-08-26

A method, system, and computer-readable medium are provided for displaying contents of a database table comprising a plurality of fields arranged in a plurality of rows and columns, selecting a field of the plurality of fields wherein the selected field comprises a reference to an attached file, ...

Accessing cached data from a peer cloud controller in a distributed filesystem

US · [US2010056882](#) · John Richard Taylor · Panzura, Inc.

Priority 2010-05-03 · Filed 2012-12-21 · Granted 2014-08-12 · Published 2014-08-12

The disclosed embodiments provide a system that archives data for a distributed filesystem. Two or more cloud controllers collectively manage distributed filesystem data that is stored in one or more cloud storage systems; the cloud controllers cache and ensure data consistency for the stored data ...

Distributing data for a distributed filesystem across multiple cloud storage ...

US · [US200901382](#) · John Richard Taylor · Panzura, Inc.

Priority 2010-05-03 · Filed 2012-12-21 · Granted 2014-05-05 · Published 2014-05-05

The disclosed embodiments provide a system that distributes data for a distributed filesystem across multiple cloud storage systems. Two or more cloud controllers collectively manage distributed filesystem data that is stored in one or more cloud storage systems; the cloud controllers cache and ...

Archiving data for a distributed filesystem

US · [US20130118779A1](#) · John Richard Taylor · Panzura, Inc.

Priority 2010-05-03 · Filed 2013-02-15 · Published 2013-05-02

The disclosed embodiments provide a system that archives data for a distributed filesystem. Two or more cloud controllers collectively manage distributed filesystem data that is stored in one or more cloud storage systems; the cloud controllers cache and ensure data consistency for the stored data ...

Providing disaster recovery for a distributed filesystem

US · [US20130112626A1](#) · John Richard Taylor · Panzura, Inc.

Priority 2010-05-03 · Filed 2013-02-15 · Published 2013-05-02

The disclosed embodiments provide a system that distributes data for a distributed filesystem across multiple cloud storage systems. Two or more cloud controllers collectively manage distributed filesystem data that is stored in one or more cloud storage systems; the cloud controllers cache and ...

Deleting a file from a distributed filesystem

US · [US2013006881](#) · John Richard Taylor · Panzura, Inc.

Priority 2010-05-03 · Filed 2013-02-15 · Granted 2017-08-13 · Published 2017-08-13

The disclosed embodiments disclose techniques for deleting a file from a distributed filesystem. Two or more cloud controllers collectively manage distributed filesystem data that is stored in one or more cloud storage systems; the cloud controllers store metadata for the distributed filesystem, ...

Systems and methods for modifying a set of data objects

US · [US2004225482](#) · Brian Collins · Inra, Ltd.

Priority 2003-10-10 · Filed 2004-10-07 · Granted 2006-12-30 · Published 2006-12-30

A system and method for generating and updating a file system on a client computer. An original file system may be compared to an updated file system and the differences between the two file systems may be defined in specific data blocks. The differences may include new data blocks, modified data ...

Internet file system:

WO BR JP AU CA · [AU2004203243B2](#) · Michael Roberts · Oracle International Corporation

Priority 1999-08-05 · Filed 2004-07-19 · Granted 2008-03-20 · Published 2008-03-20

1. A method for performing file operations, the method including the steps of: exposing a file system interface to applications, said file system interface including routines for saving and retrieving files; receiving through said file system interface calls to perform a plurality of file ...

Document distribution processing method, server management method for the same

...>

JP • JPH11272594A • Hiroaki Hara • Fujitsu Ltd

Priority 1998-01-26 • Filed 1998-06-11 • Published 1998-10-08

PROBLEM TO BE SOLVED: To enable reference and update at any base and to solve a problem of a multiple update occurrence in a document distribution processing in a system where an online document is shared by plural servers on a network. SOLUTION: A server 10a for updating a document has a message ...

Avoiding client timeouts in a distributed filesystem



US • US9862156B2 • Richard Sharpe • Panzura, Inc.

Priority 2010-05-03 • Filed 2013-06-20 • Granted 2017-12-26 • Published 2017-12-26

The disclosed embodiments disclose techniques that facilitate of avoiding client timeouts in a distributed filesystem. Multiple cloud controllers collectively manage distributed filesystem data that is stored in one or more cloud storage systems; the cloud controllers ensure data consistency for ...

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Distributed backup and versioning

US • [US8759055B2](#) • Elesa E. S. Murphy • Microsoft Corporation

Priority 2008-04-24 • Filed 2009-04-24 • Granted 2014-07-01 • Published 2014-07-01

The claimed subject matter provides a system and/or a method that facilitates distributed backup and versioning techniques for network-based backup architectures. When data is committed to a backup system, a backup version can be created. The generated backup version can be a complete rendition of ...

Continuous availability and efficient backup for externally referenced objects

US • [US8089694A](#) • Randal Chilton Burns • International Business Machines Corporation

Priority 1998-03-31 • Filed 1999-03-31 • Granted 2000-07-11 • Published 2000-07-11

A computing system provides continuous availability of data files that are maintained at a file management system and linked to a database management system (DBMS) through a Datalink data type, even while any particular file is being changed with DBMS append or update operations. When a file is ...

Systems and methods for adaptive copy on write

US • [US825832B2](#) • Darren P. Schack • EMC Corporation

Priority 2007-08-21 • Filed 2011-01-14 • Granted 2012-08-12 • Published 2012-08-12

In one embodiment, a user or client device communicates with a distributed file system comprised of one or more physical nodes. The data on each of the physical nodes store metadata about files and directories within the file system. Some of the embodiments permit a user to take a snapshot of data ...

Dynamic rule-based version control system

US • [US5845200A](#) • David B. Leblang • Atria Software, Inc.

Priority 1993-01-08 • Filed 1996-12-02 • Granted 1997-07-15 • Published 1997-07-15

A data processing system and method for controlling versions of data, features a processor, a storage device for storing versions of objects, and an object version selector for providing the processor with access only to specific versions of target data objects as determined by a set of selection ...

Method and system of associating, synchronizing and reconciling computer files ...

US • [US5945293A](#) • William Lewis Veighte • Microsoft Corporation

Priority 1994-08-08 • Filed 1997-03-26 • Granted 1999-12-01 • Published 1999-12-01

A method and system for associating, synchronizing and reconciling files. Associated files are synchronized and then synchronized to a target computer. Based on the synchronization of the files, the operating system recommends a preferred reconciliation action. Furthermore, file conflicts are recognized ...

Dynamic software version auditor which monitors a process to provide a list of ...

US • [US5574898A](#) • David B. Leblang • Atria Software, Inc.

Priority 1993-01-08 • Filed 1993-01-08 • Granted 1996-11-12 • Published 1996-11-12

A data processing system and method features an object selector including an auditor for recording, as an audit record, which versions of objects are accessed by a processor during a data processing process. Each derived object is associated with an audit record. A system build process starts the ...

Systems and methods for a snapshot of data

US • [US7953704B2](#) • Robert J. Anderson • EMC Corporation

Priority 2006-06-18 • Filed 2009-06-18 • Granted 2011-05-31 • Published 2011-05-31

In one embodiment, a user or client device is connected to a distributed file system comprised of one or more physical nodes. The data on each of the physical nodes store metadata about files and directories within the file system. Some of the embodiments permit a user to take a snapshot of data ...

Systems and methods for a snapshot of data

US • [US73882071B2](#) • Neal T. Fackian • Isilon Systems, Inc.

Priority 2006-03-16 • Filed 2006-06-18 • Granted 2011-02-01 • Published 2011-02-01

In one embodiment, a user or client device is connected to a distributed file system comprised of one or more physical nodes. The data on each of the physical nodes store metadata about files and directories within the file system. Some of the embodiments permit a user to take a snapshot of data ...

Systems and methods for a snapshot of data

US • [US7668368B2](#) • Robert J. Anderson • Isilon Systems, Inc.

Priority 2006-03-16 • Filed 2006-06-18 • Granted 2010-03-16 • Published 2010-03-16

In one embodiment, a user or client device is connected to a distributed file system comprised of one or more physical nodes. The data on each of the physical nodes store metadata about files and directories within the file system. Some of the embodiments permit a user to take a snapshot of data ...

Systems and methods for a snapshot of data

US • [US8016483B2](#) • Robert J. Anderson • EMC Corporation

Priority 2006-05-18 • Filed 2010-03-04 • Granted 2011-06-06 • Published 2011-06-06

In one embodiment, a user or client device is connected to a distributed file system comprised of one or more physical nodes. The data on each of the physical nodes store metadata about files and directories within the file system. Some of the embodiments permit a user to take a snapshot of data ...



Next > >>

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SEARCH TERMS



files versions metadata x + Synonym

+ Synonym

SEARCH FIELDS

Date Priority

YYYY-MM-DD — YYYY-MM-DD

+ Inventor

+ Assignee

Patent Office Language

Status Type

Litigation

About 38,532 results

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Sort by Relevance Group by None Deduplicate by Family Results / page 10

System for automatically shadowing data and file directory structures that are ...



WO EP US JP KR CA • US7540280B2 • David SCHWAAB • Rebil, Inc.

Priority 2006-10-31 • Filed 2007-10-31 • Granted 2009-12-29 • Published 2009-12-29

The Data Shadowing System comprises a memory module that is connected to the monitored computer system via an existing input/output port to store the shadowed data. The memory module includes a memory device for data storage as well as software, including a control software component that is ...

Systems and methods for a snapshot of data



US • US20100161557A1 • Robert J. Anderson • Anderson Robert J

Priority 2008-06-18 • Filed 2010-03-04 • Published 2010-06-24

In one embodiment, a user or client device is connected to a distributed file system comprised of one or more physical nodes. The data on each of the physical nodes store metadata about files and directories within the file system. Some of the embodiments permit a user to take a snapshot of data ...

Unified local storage supporting file and cloud object access



EP US • US8049759B2 • Caitlin Bestler • Nexenta Systems, Inc.

Priority 2012-01-13 • Filed 2012-03-08 • Granted 2014-09-30 • Published 2014-09-30

A method and system for providing unified local storage support for file and cloud access is disclosed. The method comprises writing a chunk on a storage server, and replicating the chunk to other selected storage servers when necessary. The method and system further comprise writing a version ...

System and method for storage of snapshot metadata in a remote file



US • US7644109B2 • Stephen L. Manley • Netapp, Inc.

Priority 2002-03-19 • Filed 2003-01-09 • Granted 2010-01-05 • Published 2010-01-05

A system and method for conforming a metadata file associated with qtree of a storage system to a version used by a file system kernel of the storage system, where the version indicates a format of the metadata file. The metadata file stores state information with respect to each qtree, and may be ...

Systems and methods for a snapshot of data



US • US7680842B2 • Robert J. Anderson • Nikon Systems, Inc.

Priority 2006-06-18 • Filed 2006-06-18 • Granted 2010-03-16 • Published 2010-03-16

In one embodiment, a user or client device is connected to a distributed file system comprised of one or more physical nodes. The data on each of the physical nodes store metadata about files and directories within the file system. Some of the embodiments permit a user to take a snapshot of data ...

Method and system for data reduction

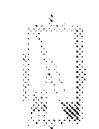


WO US • US8650157B2 • Siew Yong Sim-Tang • Dell Software Inc.

Priority 2004-08-17 • Filed 2012-06-01 • Granted 2014-02-11 • Published 2014-02-11

A "forward" delta data management technique uses a "sparse" index associated with a delta file to achieve both delta management efficiency and to eliminate read latency while accessing history data. The invention may be implemented advantageously in a data management system that provides real-time ...

Data compression technology and data storage technology



WO EP US JP AU CA DK • JP5309015B2 • ドット、フライン・データストレージグループ Dot a Storage Group

Priority 2006-04-07 • Filed 2007-04-09 • Granted 2013-10-09 • Published 2013-10-09

Provided are systems and methods for use in data archiving. In one arrangement, compression techniques are provided wherein an earlier version of a data set (e.g., file folder, etc) is utilized as a dictionary of a compression engine to compress a subsequent version of the data set. This ...

Synchronization with derived metadata



US • [US20050190500A1](#) • Meeshan Rao • Microsoft Corporation
Priority 2005-02-22 • Filed 2005-02-22 • Published 2005-08-24

A system and method for synchronizing a database comprising raw data and metadata derived from the raw data, but when the metadata has not yet been updated. The raw data and the metadata are first synchronized, with the raw data having been assigned a version number. After synchronization, any ...

Information processing system and file restoration method using the same



WG EP US CN JP *ny* • [JP2011000000B2](#) • 松本 慎也 • 株式会社日立製作所

Priority 2011-10-28 • Filed 2011-10-28 • Granted 2015-04-22 • Published 2015-04-22

A first server device having a first file system and receiving an I/O request from a client device, A first storage device that provides a storage area to the first server device; A second server device having a second file system and communicatively connected to the first server device; A ...

Implementing read/write, multi-versioned file system on top of backup data



EP US CN JP • [US8489983B2](#) • Weibao Wu • Symantec Corporation

Priority 2007-03-30 • Filed 2007-03-30 • Granted 2013-07-16 • Published 2013-07-16

Various embodiments of a computer system and methods are disclosed. In one embodiment, a computer system includes hosts coupled to a backup medium. The backup medium stores data segments and objects, each object referencing one or more segments. A second host conveys a write request to a first ...

Next >



About 35,932 results

Notice of Pre-AIA or AIA Status

The present application is being examined under the pre-AIA first to invent provisions.

In the event the determination of the status of the application as subject to AIA 35 U.S.C. 102 and 103 (or as subject to pre-AIA 35 U.S.C. 102 and 103) is incorrect, any correction of the statutory basis for the rejection will not be considered a new ground of rejection if the prior art relied upon, and the rationale supporting the rejection, would be the same under either status.

This application is a CON of 16/361,641 filed on 03/22/2019 which is a CON of 16/017,348 filed on 06/25/2018 is now US PAT 10289607, which is a CON of 14/860,289 filed on 09/21/2015 is now US PAT 10067942 which is a CON 12/267,852 filed on 11/10/2008 is now US PAT 9143561 which claims benefit of US Provisional application 60/986,896 filed on 11/09/2007

TRACK 1 request granted on 2/14/2020.

DETAILED ACTION

1. Claims 1-20 are pending in this application.
2. Examiner acknowledges applicant's FAI filed on 1/23/2020.

Drawings

3. The Drawings filed on 3/22/2019 are acceptable for examination purpose.

Information Disclosure Statement

4. The information disclosure statement (IDS) submitted on 3/22/2019 is in compliance with the provisions of 37 CFR 1.97. Accordingly, the information disclosure statement is being considered by the examiner, mailed on 1/23/2020

Double Patenting

5. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the “right to exclude” granted by a patent and to prevent possible harassment by multiple assignees. A nonstatutory double patenting rejection is appropriate where the claims at issue are not identical, but at least one examined application claim is not patentably distinct from the reference claim(s) because the examined application claim is either anticipated by, or would have been obvious over, the reference claim(s). See, e.g., *In re Berg*, 140 F.3d 1428, 46 USPQ2d 1226 (Fed. Cir. 1998); *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) or 1.321(d) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the reference application or patent either is shown to be commonly owned with this application, or claims an invention made as a result of activities undertaken within the scope of a joint research agreement. A terminal disclaimer must be signed in compliance with 37 CFR 1.321(b).

The USPTO internet Web site contains terminal disclaimer forms which may be used. Please visit <http://www.uspto.gov/forms/>. The filing date of the application will determine what form should be used. A web-based eTerminal Disclaimer may be filled out completely online using web-screens. An eTerminal Disclaimer that meets all requirements is auto-processed and approved immediately upon submission. For more information about eTerminal Disclaimers, refer to <http://www.uspto.gov/patents/process/file/efs/guidance/eTD-info-I.jsp>.

6. Claims 1-20 of US Application No. 16/750,399 are rejected on the ground of nonstatutory double patenting as being unpatentable over claims 1-13 of U.S. Patent No. **9,143,561**. Although the claims at issue are not identical, they are not patentably distinct from each other because the patented claims perform the same steps as the claims in the instant application.

Instant US application: 16/750,399	US Patent No. 9,143,561
<p>Claim 1,12,18 A system comprising: a server system comprising one or more processors programmed with computer program instructions that, when executed, cause the server system to:</p> <p><u>receive</u>, over a network, a copy of a first file from a <u>first client device associated</u></p>	<p>Claim 1, A system, comprising: a first electronic device configured to selectively execute a first application, the first electronic device being in communication with a second electronic device and a third electronic device, each associated with a user wherein the first electronic device is configured to:</p> <p><u>receive</u> from a second application executable on the second electronic</p>

<p><u>with a user, wherein the copy of the first file is automatically received</u> from the first client device responsive to the user <u>modifying a content of the first file stored on the first client device</u>, the copy of the first file being an updated version of the first file that is generated from the user modifying the content of the first file;</p> <p>receive, over a network, from the first client device, first metadata associated with the updated version of the first file that is generated from the <u>user modifying the content of the first file</u>, the first metadata being assigned a first priority greater than a second priority assigned to the copy of the first file; and</p>	<p>device a copy of a first electronic file <u>automatically transferred from the second application when the user modifies a content of the first electronic file</u>; and wherein the first electronic device is further configured to receive from a third application executable on the third electronic device a copy of a second electronic file automatically transferred from the third application when the user modifies a content of the second electronic file; and</p> <p>wherein the first application is further configured to <u>automatically transfer the modified first electronic file copy</u> to the third electronic device to <u>replace an older version of the first electronic file</u> stored on the third electronic device with the modified first electronic file copy having the content modified by the user; and</p>
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<p><u>automatically transfer</u>, based on the first priority being greater than the second priority, the first metadata over a network to a second client device associated with the user such that the first metadata is transferred to the second client device before the copy of the first file is transferred to the second client device, wherein, before the copy of the first file is transferred to the second client device:</p> <p>(i) <u>the transfer</u> of the first metadata to the second client device causes a file representation of the first file presented on a user interface of the second client device to be <u>updated</u> based on the first metadata, and</p> <p>(ii) instead of the updated file representation of the first file representing a version of the first file currently stored on the second client device, the updated file representation represents the updated</p>	<p><u>automatically transfer</u> the modified second electronic file copy to the second electronic device to replace an older version of the second electronic file stored on the second electronic device with the modified second electronic file copy having the content modified by the user;</p> <p>wherein the second application <u>automatically transfers the copy of the modified first electronic file</u> to the first electronic device upon determining that a save operation has been performed on the <u>modified</u> first electronic file.</p>
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version of the first file that is currently stored on the first client device and not currently stored on the second client device.	
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It would have been obvious to a person of ordinary skill was made to modify and/or to omit the additional elements of claim 1-13 of U.S. Patent No. **9,143,561** to arrive at the claims 1-20 of the instant application **16/750,399** because the ordinary skilled person would have realized that the remaining element(s) would perform the same function as before. Omission and/or addition of elements and its function in combination is obvious expedient if the remaining elements perform same functions as before.

7. Claims 1-20 of US Application No. 16/750,399 are rejected on the ground of nonstatutory double patenting as being unpatentable over claims 1-18 of U.S. Patent No. **10,067,942**. Although the claims at issue are not identical, they are not patentably distinct from each other because the patented claims perform the same steps as the claims in the instant application.

Instant US application: 16/750,399	US Patent No. 10,067,942
<p>Claim 1,12,18 A system comprising: a server system comprising one or more processors programmed with computer program instructions that, when executed, cause the server system to:</p> <p><u>receive</u>, over a network, a copy of a first file from a <u>first client device associated with a user, wherein the copy of the first file is automatically received</u> from the first client device responsive to the user <u>modifying a content of the first file stored on the first client device</u>, the copy of the first file being an updated version of the</p>	<p>Claim 1,10, A system, comprising: a first electronic device configured to selectively execute a first application, the first electronic device being in communication with a second electronic device and a third electronic device, each associated with a user wherein the first electronic device is configured to:</p> <p><u>receive</u> from a second application executable on the second electronic device a copy of a first electronic file <u>automatically</u> transferred from the second application when the user modifies a content of the first electronic file; and wherein the first electronic device is further configured to receive from a third application executable on the third</p>

<p>first file that is generated from the user modifying the content of the first file;</p> <p>receive, over a network, from the first client device, first metadata associated with the updated version of the first file that is generated from the <u>user modifying the content of the first file</u>, the first metadata being assigned a first priority greater than a second priority assigned to the copy of the first file; and</p> <p><u>automatically transfer</u>, based on the first priority being greater than the second priority, the first metadata over a network to a second client device associated with the user such that the first metadata is transferred to the second client device before the copy of the first file is</p>	<p>electronic device a copy of a second electronic file automatically transferred from the third application when the user modifies a content of the second electronic file; and</p> <p>wherein the first application is further configured to automatically transfer the modified first electronic file copy to the third electronic device to replace an older version of the first electronic file stored on the third electronic device with the modified first electronic file copy having the content modified by the user; and</p> <p><u>automatically transfer</u> the modified second electronic file copy to the second electronic device to replace an older version of the second electronic file stored on the second electronic device with the modified second electronic file copy having the content modified by the user;</p> <p>wherein the second application automatically transfers the copy of the</p>
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<p>transferred to the second client device, wherein, before the copy of the first file is transferred to the second client device:</p> <p>(i) <u>the transfer</u> of the first metadata to the second client device causes a file representation of the first file presented on a user interface of the second client device to be <u>updated</u> based on the first metadata, and</p> <p>(ii) instead of the updated file representation of the first file representing a version of the first file currently stored on the second client device, the updated file representation represents the updated version of the first file that is currently stored on the first client device and not currently stored on the second client device.</p>	<p>modified first electronic file to the first electronic device upon determining that a save operation has been performed on the modified first electronic file.</p>
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It would have been obvious to a person of ordinary skill was made to modify and/or to omit the additional elements of claim 1-18 of U.S. Patent No. **10,067,942** to arrive at the claims 1-20 of the instant application **16/750,399** because the ordinary skilled person would have realized that the remaining element(s) would perform the same function as before. Omission and/or addition of elements and its function in combination is obvious expedient if the remaining elements perform same functions as before, as such instant application is broader.

8. Claims 1-20 of US Application No. **16/750,399** are rejected on the ground of nonstatutory double patenting as being unpatentable over claims 1-21 of U.S. Patent No. **10,289,607**. Although the claims at issue are not identical, they are not patentably distinct from each other because the patented claims perform the same steps as the claims in the instant application.

Instant US application: 16/750,399	US Patent No. 10,289,607
<p>Claim 1,12,18 A system comprising:</p> <p><u>a server system comprising one or more processors programmed with computer program instructions that, when executed, cause the server system to:</u></p> <p><u>receive, over a network, a copy of a first file from a first client device associated with a user, wherein the copy of the first file is automatically received from the first client device responsive to the user modifying a content of the first file stored on the first client device, the copy of the first file being an updated version of the first file that is generated from the user modifying the content of the first file;</u></p>	<p>Claim 1,12, A system, comprising:</p> <p><u>a server system comprising one or more processors programmed with computer program instructions that, when executed, cause the server system to:</u></p> <p><u>receive, over a network, a copy of a first file from a first client device associated with a user, wherein the copy of the first file is automatically received from the first client device responsive to the user modifying a content of the first file stored on the first client device, the copy of the first file being a version of the first file that is generated from the user modifying the content of the first file;</u></p>

<p><u>receive, over a network, from the first client device, first metadata associated with the updated version</u> of the first file that is generated from the <u>user modifying the content of the first file</u>, the first metadata being assigned a first priority greater than a second priority assigned to the copy of the first file; and</p> <p><u>automatically transfer</u>, based on the first priority being greater than the second priority, the <u>first metadata</u> over a network to a second client device associated with the user such that the first metadata is transferred to the second client device before the copy of the first file is transferred to the second client device, wherein, before the copy of the first file is transferred to the second client device:</p>	<p><u>receive, from the first client device, first metadata associated with the version</u> of the first file that is generated from the user modifying the content of the first file, the first metadata being assigned a first priority greater than a second priority assigned to the copy of the first file; determine that the server system is not in communication with a second client device associated with the user; store the copy of the first file on the server system; <u>automatically transfer the first metadata</u> to the second client device based on the first priority being greater than the second priority such that the first metadata is transferred to the second client device prior to the copy of the first file being transferred to the second client device; and automatically transfer, over a network, the copy of the first file to the second client device associated with the user to replace an older version of the first file stored on the second client</p>
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<p>(i) <u>the transfer</u> of the first metadata to the second client device causes a file representation of the first file presented on a user interface of the second client device to be <u>updated</u> based on the first metadata, and</p> <p>(ii) instead of the updated file representation of the first file representing a version of the first file currently stored on the second client device, the updated file representation represents the updated version of the first file that is currently stored on the first client device and not currently stored on the second client device.</p>	<p>device, responsive to (i) resuming communication with the second client device and (ii) receiving the copy of the first file from the first client device.</p>
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It would have been obvious to a person of ordinary skill was made to modify and/or to omit the additional elements of claim 1-18 of U.S. Patent No. **10,289,607** to arrive at the claims 1-21 of the instant application **16/750,399** because the ordinary skilled person would have realized that the remaining element(s) would perform the same function as before. Omission and/or addition of elements and its function in

combination is obvious expedient if the remaining elements perform same functions as before, as such instant application is broader.

Claim 1,12,18 provisionally rejected on the ground of nonstatutory double patenting as being unpatentable over claim 1,12,18 of copending Application No. **16/361,641** (reference application). Although the claims at issue are not identical, they are not patentably distinct from each other because they are substantially similar in scope and they use the similar limitations and they produce the same end results of transfer and updated file representation.

This is a provisional nonstatutory double patenting rejection because the patentably indistinct claims have not in fact been patented.

Instant US application: 16/750,399	Co-pending application: 16/361,641
<p>Claim 1,12,18 Claim 1,12,18 A system comprising:</p> <p>a server system comprising one or more processors programmed with computer program instructions that, when executed, cause the server system to:</p> <p><u>receive</u>, over a network, a copy of a first file from a <u>first client device</u> <u>associated with a user, wherein the copy of the first file is automatically received</u> from the first client device</p>	<p>Claim 1,12,18 A system comprising:</p> <p>a server system comprising one or more processors programmed with computer program instructions that, when executed, cause the server system to:</p> <p><u>receive</u>, over a network, a copy of a first file from a first client device associated with a user, wherein the copy of the first file is <u>automatically received from the first client device</u></p>

<p>responsive to the user <u>modifying a content of the first file stored on the first client device</u>, the copy of the first file being an updated version of the first file that is generated from the user modifying the content of the first file;</p> <p>receive, over a network, from the first client device, first metadata associated with the updated version of the first file that is generated from the <u>user modifying the content of the first file</u>, the first metadata being assigned a first priority greater than a second priority assigned to the copy of the first file; and</p> <p><u>automatically transfer</u>, based on the first priority being greater than the second priority, the first metadata over a network to a second client device associated with the user such that the first metadata is transferred to the second client device before the copy of the first file is transferred to the second client</p>	<p><u>responsive to the user modifying a content of the first file stored on the first client device</u>, the copy of the first file being a version of the first file that is generated from the user modifying the content of the first file;</p> <p>determine that the server system is not in communication with a second client device associated with the user; and</p> <p>store the copy of the first file on the server system;</p> <p><u>automatically transfer</u>, over a network, the copy of the first file to the second client device associated with the user to <u>replace an older version of the first file</u> stored on the second client device, responsive to</p> <p>(i) resuming communication with the second client device and (ii) receiving the</p>
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<p>device, wherein, before the copy of the first file is transferred to the second client device:</p> <p>(i) <u>the transfer</u> of the first metadata to the second client device causes a file representation of the first file presented on a user interface of the second client device to be <u>updated</u> based on the first metadata, and</p> <p>(ii) instead of the updated file representation of the first file representing a version of the first file currently stored on the second client device, the updated file representation represents the updated version of the first file that is currently stored on the first client device and not currently stored on the second client device</p>	<p>copy of the first file from the first client device.</p>
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It would have been obvious to a person of ordinary skill was made to modify and/or to omit the additional elements of claim 1-20 of U.S. instant application **16/750,399** to arrive at the claims 1-20 of the co-pending application **16/361,641** because the ordinary skilled person would have realized that the remaining element(s) would perform the same function as before. Omission and/or addition of elements and its function in combination is obvious expedient if the remaining elements perform same functions as before.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /S.C./

FORM PTO-1449 (modified)
To: U.S. Department of Commerce
(PW FORM PAT-1449)
Patent and Trademark Office

Atty.
Dkt. No.

M#

023027

0509067

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Inventor(s): Michael R. MANZANO

Appln. No.: New

Filing Date: January 23, 2020

Date: January 23, 2020

Page

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of

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Examiner: Unassigned

Group Art Unit: Unassigned

U.S. PATENT DOCUMENTS

Examiner's Initials*	Document Number	Date MM/YYYY	Name (Family Name of First Inventor)	Class	Sub Class	Filing Date (if appropriate)
	AR 6,463,463	10/2002	GODFREY et al.			
	BR 6,504,994	01/2003	KAWAMURA et al.			
	CR 6,505,200	01/2003	IMS et al.			
	DR 6,611,849	08/2003	RAFF et al.			
	ER 6,671,700	12/2003	CREEMER et al.			
	FR 6,708,221	03/2004	MENDEZ et al.			
	GR 6,757,696	06/2004	MULTER et al.			
	HR 6,760,759	07/2004	CHAN			
	IR 6,810,405	10/2004	LARUE et al.			
	JR 6,829,622	12/2004	BEYDA			
	KR 6,874,037	03/2005	ABRAM et al.			
	LR 6,931,454	08/2005	DESHPANDE et al.			
	MR 6,990,522	01/2006	WU			
	NR 7,024,428	04/2006	HUANG et al.			
	OR 7,054,594	05/2006	BLOCH et al.			

FOREIGN PATENT DOCUMENTS

Document Number	Date MM/YYYY	Country	Inventor Name	English Abstract	Translation Readily Available
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OTHER (Including in this order Author, Title, Periodical Name, Date, Pertinent Pages, etc.)

QR					
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SR					
TR					

Examiner /Srirama Channavajjala/

Date Considered: 03/03/2020

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

FORM PTO-1449 (modified)
To: U.S. Department of Commerce
(PW FORM PAT-1449)
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023027

0509067

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Inventor(s): Michael R. MANZANO

Appln. No.: New

Filing Date: January 23, 2020

Date: January 23, 2020

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of

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Examiner: Unassigned

Group Art Unit: Unassigned

U.S. PATENT DOCUMENTS

Examiner's Initials*	Document Number	Date MM/YYYY	Name (Family Name of First Inventor)	Class	Sub Class	Filing Date (if appropriate)
	UR	7,065,658	06/2006	BARABAN et al.		
	VR	7,089,307	08/2006	ZINTEL et al.		
	WR	7,155,488	12/2006	LUNSFORD et al.		
	XR	7,243,163	07/2007	FRIEND et al.		
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	BB	7,398,327	07/2008	LEE		
	CC	7,415,615	08/2008	SKYGEBJER		
	DD	7,457,631	11/2008	YACH et al.		
	EE	7,467,353	12/2008	KURLANDER et al.		
	FF	7,483,925	01/2009	KOSKIMIES et al.		
	GG	7,526,575	04/2009	RABBERS et al.		
	HH	7,574,711	08/2009	ZONDERVAN et al.		
	IIR	7,584,186	09/2009	CHEN et al.		

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JJR				Enclosed	No

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KKF					
LLR					
MM					
NNF					

Examiner /Srirama Channavajjala/

Date Considered:

03/03/2020

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

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /s.c./

FORM PTO-1449 (modified)
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Dkt. No.

M#

023027

0509067

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Inventor(s): Michael R. MANZANO

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Date: January 23, 2020

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Examiner: Unassigned

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	QQI 7,639,116	12/2009	SAUNDERS			
	RRF 7,657,271	02/2010	KIM			
	SSF 7,680,885	03/2010	SCHAUSER et al.			
	TTF 7,752,166	07/2010	QUINLAN et al.			
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	YYF 8,112,549	02/2012	SRINIVASAN et al.			
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	AAI 8,321,534	11/2012	ROSKIND et al.			
	BBF 8,370,423	02/2013	OZZIE et al.			
	CCF 8,386,558	02/2013	SCHLEIFER et al.			

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Document Number	Date MM/YYYY	Country	Inventor Name	English Abstract	Translation Readily Available
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EEE					
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GGG					
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Date: January 23, 2020

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Group Art Unit: Unassigned

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Examiner's Initials*	Document Number	Date MM/YYYY	Name (Family Name of First Inventor)	Class	Sub Class	Filing Date (if appropriate)
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	KKK	2003/0135565	07/2003	ESTRADA		
	LLL	2004/0049345	03/2004	MCDONOUGH et al.		
	MM	2005/0097225	05/2005	GLATT et al.		
	NN	2005/0220080	10/2005	RONKAINEN et al.		
	OO	2006/0058907	03/2006	SUDERMAN		
	PP	2006/0189348	08/2006	MONTULLI et al.		
	QQ	2007/0014314	01/2007	O'NEIL		
	RR	2007/0191057	08/2007	KAMADA		
	SS	2007/0238440	10/2007	SENGUPTA et al.		
	TT	2008/0005280	01/2008	ADAMS		
	UU	2008/0086494	04/2008	HELLER et al.		
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	WW	2008/0288578	11/2008	SILFVERBERG		
	XX	2009/0063711	03/2009	FINKELSTEIN		

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Document Number	Date MM/YYYY	Country	Inventor Name	English Abstract	Translation Readily Available
YYY				Enclosed	No

OTHER (Including in this order Author, Title, Periodical Name, Date, Pertinent Pages, etc.)

ZZZ					
AAA					
BBB					
CCC					

Examiner /Srirama Channavajjala/

Date Considered: 03/03/2020

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Examiner: Unassigned

Group Art Unit: Unassigned

U.S. PATENT DOCUMENTS

Examiner's Initials*	Document Number	Date MM/YYYY	Name (Family Name of First Inventor)	Class	Sub Class	Filing Date (if appropriate)
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FOREIGN PATENT DOCUMENTS

Document Number	Date MM/YYYY	Country	Inventor Name	English Abstract	Translation Readily Available
EEE				Enclosed	No

OTHER (Including in this order Author, Title, Periodical Name, Date, Pertinent Pages, etc.)

FFF	FolderShare - Secure Remote Access VPN Solution; Document Management & Real-time File Mirroring Solution; < https://web.archive.org/web/20040804020435/http://www.foldershare.com:80/ >; August 4, 2004.				
GGG	FolderShare; Your Files Anywhere; < https://web.archive.org/web/20030808183932/http://www.foldershare.com:80/ >; August 8, 2003.				
HHH	FolderShare - Secure Remote Access VPN Solution; Need your files on more than one computer?; < https://web.archive.org/web/20040814015727/http://www.foldershare.com:80/ >; August 14, 2004.				
III	FolderShare - Secure Remote Access VPN Solution; Need your files on more than one computer?; < https://web.archive.org/web/20040820052105/http://www.foldershare.com:80/ >; August 20, 2004.				
JJJ	FolderShare - Secure Remote Access VPN Solution; Need your files on more than one computer?; < https://web.archive.org/web/20041211020957/http://foldershare.com:80/ >; December 11, 2004.				
KKK	FolderShare - Secure Remote Access VPN Solution; Need your files on more than one computer?; < https://web.archive.org/web/20041217041726/http://foldershare.com:80/ >; December 17, 2004.				
LLL	FolderShare; Your Smart File Transfer Solution; < https://web.archive.org/web/20031220151508/http://www.foldershare.com:80/ >; December 20, 2003.				
MMM	FolderShare - Secure Remote Access VPN Solution; Need your files on more than one computer?; < https://web.archive.org/web/20041230211050/http://www.foldershare.com:80/ >; December 30, 2004.				
NNN	FolderShare - Secure Remote Access VPN Solution; Document Management & Real-time File Mirroring Solution; < https://web.archive.org/web/20040701113739/http://foldershare.com:80/ >; July 1, 2004.				
OOO	FolderShare - Secure Remote Access VPN Solution; Document Management & Real-time File Mirroring Solution; < https://web.archive.org/web/20040711062548/http://www.foldershare.com:80/ >; July 11, 2004.				

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FORM PTO-1449 (modified) To: U.S. Department of Commerce (PW FORM PAT-1449) Patent and Trademark Office		Atty. Dkt. No.	M#	
		023027	0509067	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT		Inventor(s): Michael R. MANZANO		
		Appln. No.: New		
		Filing Date: January 23, 2020		
		Examiner: Unassigned	Group Art Unit: Unassigned	
Date: January 23, 2020	Page	6	of	10

U.S. PATENT DOCUMENTS						
Examiner's Initials*	Document Number	Date MM/YYYY	Name (Family Name of First Inventor)	Class	Sub Class	Filing Date (if appropriate)
	PPR					
	QQQ					
	RRR					

FOREIGN PATENT DOCUMENTS					English Abstract		Translation Readily Available	
	Document Number	Date MM/YYYY	Country	Inventor Name	Enclosed	No	Enclose	No
	SSS							

OTHER (Including in this order Author, Title, Periodical Name, Date, Pertinent Pages, etc.)								
	TTT	FolderShare; Your Files Anywhere; <https://web.archive.org/web/20030722054342/http://foldershare.com:80/>; July 22, 2003.						
	UUU	FolderShare - Secure Remote Access VPN Solution; Document Management & Real-time File Mirroring Solution; <https://web.archive.org/web/20040730030655/http://www.foldershare.com:80/>; July 30, 2004.						
	VVV	FolderShare - Secure Remote Access VPN Solution; Document Management & Real-time File Mirroring Solution; <https://web.archive.org/web/20040603205113/http://www.foldershare.com:80/>; June 3, 2004.						
	WWW	FolderShare - Secure Remote Access VPN Solution; Document Management & Real-time File Mirroring Solution; <https://web.archive.org/web/20040613161906/http://www.foldershare.com:80/>; June 13, 2004.						
	XXX	FolderShare - Secure Remote Access VPN Solution; Document Management & Real-time File Mirroring Solution; <https://web.archive.org/web/20040629075057/http://www.foldershare.com:80/>; June 29, 2004.						
	YYY	FolderShare - Secure Remote Access VPN Solution; Your Smart File Transfer & Real-time File Mirroring Solution; <https://web.archive.org/web/20040316235151/http://foldershare.com:80/>; March 16, 2004.						
	ZZZ	FolderShare - Secure Remote Access VPN Solution; Your Smart File Transfer & Real-time File Mirroring Solution; <https://web.archive.org/web/20040325034239/http://www.foldershare.com:80/>; March 25, 2004.						
	AAA	FolderShare - Secure Remote Access VPN Solution; Document Management & Real-time File Mirroring Solution; <https://web.archive.org/web/20040512211417/http://www.foldershare.com:80/>; May 12, 2004.						
	BBB	FolderShare; Your Files Anywhere; <https://web.archive.org/web/20030531180252/http://www.foldershare.com:80/>; May 31, 2003.						
	CCC	FolderShare - Secure Remote Access VPN Solution; Need your files on more than one computer?; <https://web.archive.org/web/20041104031510/http://www.foldershare.com:80/>; November 4, 2004.						

Examiner	/Srirama Channavajjala/	Date Considered:	03/03/2020
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Inventor(s): Michael R. MANZANO

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Group Art Unit: Unassigned

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Examiner's Initials*	Document Number	Date MM/YYYY	Name (Family Name of First Inventor)	Class	Sub Class	Filing Date (if appropriate)
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EEE				Enclosed	No

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FFF	FolderShare - Secure Remote Access VPN Solution; Need your files on more than one computer?; < https://web.archive.org/web/20041117092357/http://www.foldershare.com:80/ >; November 17, 2004.				
GGG	FolderShare - Secure Remote Access VPN Solution; Need your files on more than one computer?; < https://web.archive.org/web/20041123085254/http://www.foldershare.com:80/ >; November 23, 2004.				
HHH	FolderShare; Your Files Anywhere; < https://web.archive.org/web/20031128143634/http://foldershare.com:80/ >; November 28, 2003.				
IIIII	FolderShare; Your Files Anywhere; < https://web.archive.org/web/20031001071631/http://foldershare.com:80/ >; October 1, 2003.				
JJJ	FolderShare - Secure Remote Access VPN Solution; Need your files on more than one computer?; < https://web.archive.org/web/20041012083127/http://www.foldershare.com:80/ >; October 12, 2004.				
KKK	FolderShare - Secure Remote Access VPN Solution; Need your files on more than one computer?; < https://web.archive.org/web/20041029085820/http://www.foldershare.com:80/ >; October 29, 2004.				
LLL	FolderShare - Secure Remote Access VPN Solution; Need your files on more than one computer?; < https://web.archive.org/web/20040901034646/http://www.foldershare.com:80/ >; September 1, 2004.				
MMM	FolderShare - Secure Remote Access VPN Solution; Need your files on more than one computer?; < https://web.archive.org/web/20040909075254/http://www.foldershare.com:80/ >; September 9, 2004.				
NNN	FolderShare; Your Files Anywhere; < https://web.archive.org/web/20030920051943/http://www.foldershare.com:80/ >; September 20, 2003.				
OOO	FolderShare - Secure Remote Access VPN Solution; Need your files on more than one computer?; < https://web.archive.org/web/20040924032146/http://www.foldershare.com:80/ >; September 24, 2004.				

Examiner /Srirama Channavaajjala/

Date Considered: 03/03/2020

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Inventor(s): Michael R. MANZANO

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	QQ	2006/0143129	06/2006	HOLM		
	RRF	2004/0133629	07/2004	REYNOLDS		
	SS	2002/0035697	03/2002	MCCURDY		
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	IIIIII	EP 1 130 511 A2	09/2001	EP	MULTER				

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JJJ					
KKK					
LLL					
MM					

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				Enclose	No

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	PP	7,035,847	04/2006	BROWN et al.		
	QQ	7,680,838	03/2010	SHAW		
	RR	7,885,925	02/2011	STRONG et al.		
	SS	8,019,900	09/2011	SEKAR et al.		
	TT	2005/0223047	10/2005	SHAH et al.		
	UU	2006/0101064	05/2006	STRONG et al.		
	VV	2008/0005195	01/2008	LI		
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JJJ	JARVIS, A., "Dropbox pitch deck to raise seed capital investment, " Medium, March 2018, Retrieved from the Internet: URL: <https://medium.com/@adjblog/dropbox-pitch-deck-to-raise-seed-capital-investment-6a6cd6517e56>, 12 pages.				

Examiner /Srirama Channavajjala/

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03/03/2020

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Bibliographic Data

Application No: 16/750,399

Foreign Priority claimed: ☐ Yes ☒ No

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

Verified and Acknowledged: /Srirama Channavajjala/

Examiner's Signature

Initials

Title:

PRE-FILE-TRANSFER UPDATE BASED ON PRIORITIZED METADATA

FILING or 371(c) DATE	CLASS	GROUP ART UNIT	ATTORNEY DOCKET NO.
01/23/2020	707	2157	023027-0509067
RULE			

APPLICANTS

TOPIA TECHNOLOGY, INC., Tacoma, WA, UNITED STATES

INVENTORS

Michael R. MANZANO Seattle, WA, UNITED STATES

CONTINUING DATA

This application is a CON of 16361641 03/22/2019

16361641 is a CON of 16017348 06/25/2018 PAT 10289607

16017348 is a CON of 14860289 09/21/2015 PAT 10067942

14860289 is a CON of 12267852 11/10/2008 PAT 9143561

12267852 has PRO of 60986896 11/09/2007

FOREIGN APPLICATIONS

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\$2,855

Inventor Information for 16/750399

Inventor Name	City	State/Country
MANZANO, MICHAEL R.	SEATTLE	WASHINGTON

Appln Info	Comments	Petition Info	Atty/Agent Info	Continuity Data	Foreign Data	Inventors	Applicants	Address	Fees	Post Info	Pre Gr
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6119051 99	6381324 98	7788102 98
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5936225 98	7076633 98	
5956397 98	7099883 98	
5982868 98	7165073 98	
6026405 98	7194522 98	
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6185608 98	7293093 98	
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6256624 98	7484002 98	
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6356920 98	7600225 98	
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6381032 98	7752140 98	



UNITED STATES PATENT AND TRADEMARK OFFICE

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
16/750,399	01/23/2020	Michael R. MANZANO	023027-0509067	9316
909	7590	02/14/2020	EXAMINER	
Pillsbury Winthrop Shaw Pittman, LLP PO Box 10500 McLean, VA 22102				
			ART UNIT	PAPER NUMBER
			2157	
			NOTIFICATION DATE	DELIVERY MODE
			02/14/2020	ELECTRONIC

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

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

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

docket_ip@pillsburylaw.com

<i>Decision Granting Request for Prioritized Examination (Track I)</i>	Application No. 16/750,399	Applicant(s) MANZANO, Michael R.	
	Examiner CHERYL P GIBSON BAYLOR	Art Unit OPET	AIA (FITF) Status No
<p>1. THE REQUEST FILED <u>23 January 2020</u> IS GRANTED .</p> <p>The above-identified application has met the requirements for prioritized examination</p> <p>A. <input checked="" type="checkbox"/> for an original nonprovisional application (Track I).</p> <p>B. <input type="checkbox"/> for an application undergoing continued examination (RCE).</p> <p>2. The above-identified application will undergo prioritized examination. The application will be accorded special status throughout its entire course of prosecution until one of the following occurs:</p> <p>A. filing a <u>petition for extension of time</u> to extend the time period for filing a reply;</p> <p>B. filing an <u>amendment to amend the application to contain more than four independent claims, more than thirty total claims</u>, or a multiple dependent claim;</p> <p>C. filing a <u>request for continued examination</u> ;</p> <p>D. filing a notice of appeal;</p> <p>E. filing a request for suspension of action;</p> <p>F. mailing of a notice of allowance;</p> <p>G. mailing of a final Office action;</p> <p>H. completion of examination as defined in 37 CFR 41.102; or</p> <p>I. abandonment of the application.</p> <p>Telephone inquiries with regard to this decision should be directed to CHERYL GIBSON BAYLOR at (571)272-3213. In his/her absence, calls may be directed to Petition Help Desk at (571) 272-3282.</p>			
/CHERYL GIBSON BAYLOR/ Paralegal Specialist, OPET			



UNITED STATES PATENT AND TRADEMARK OFFICE

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

APPLICATION NUMBER	FILING or 371(c) DATE	GRP ART UNIT	FIL FEE REC'D	ATTY. DOCKET NO	TOT CLAIMS	IND CLAIMS
16/750,399	01/23/2020		785	023027-0509067	20	3

CONFIRMATION NO. 9316

FILING RECEIPT

909

Pillsbury Winthrop Shaw Pittman, LLP
PO Box 10500
McLean, VA 22102



0000000114632294

Date Mailed: 02/12/2020

Receipt is acknowledged of this non-provisional utility 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 FIRST INVENTOR, 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 corrected Filing Receipt, including a properly marked-up ADS showing the changes with strike-through for deletions and underlining for additions. If you received a "Notice to File Missing Parts" or other Notice requiring a response for this application, please submit any request for correction 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 provided that the request is grantable.

Inventor(s)

Michael R. MANZANO, Seattle, WA;

Applicant(s)

TOPIA TECHNOLOGY, INC., Tacoma, WA;

Power of Attorney: The patent practitioners associated with Customer Number 00909

Domestic Priority data as claimed by applicant

This application is a CON of 16/361,641 03/22/2019
which is a CON of 16/017,348 06/25/2018 PAT 10289607
which is a CON of 14/860,289 09/21/2015 PAT 10067942
which is a CON of 12/267,852 11/10/2008 PAT 9143561
which claims benefit of 60/986,896 11/09/2007

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

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

Permission to Access Application via Priority Document Exchange: Yes

Permission to Access Search Results: Yes

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

If Required, Foreign Filing License Granted: 02/11/2020

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 16/750,399**

Projected Publication Date: 05/21/2020

Non-Publication Request: No

Early Publication Request: No

**** SMALL ENTITY ****

Title

PRE-FILE-TRANSFER UPDATE BASED ON PRIORITIZED METADATA

Preliminary Class

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

PROTECTING YOUR INVENTION OUTSIDE THE UNITED STATES

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

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

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

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

For information on preventing theft of your intellectual property (patents, trademarks and copyrights), you may wish to consult the U.S. Government website, <http://www.stopfakes.gov>. Part of a Department of Commerce initiative, this website includes self-help "toolkits" giving innovators guidance on how to protect intellectual property in specific

countries such as China, Korea and Mexico. For questions regarding patent enforcement issues, applicants may call the U.S. Government hotline at 1-866-999-HALT (1-866-999-4258).

LICENSE FOR FOREIGN FILING UNDER
Title 35, United States Code, Section 184
Title 37, Code of Federal Regulations, 5.11 & 5.15

GRANTED

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

This license is to be retained by the licensee and may be used at any time on or after the effective date thereof unless it is revoked. This license is automatically transferred to any related applications(s) filed under 37 CFR 1.53(d). This license is not retroactive.

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

NOT GRANTED

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

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

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

PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875						Application or Docket Number 16/750,399				
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	75		N/A				
SEARCH FEE (37 CFR 1.16(k), (l), or (m))	N/A	N/A	N/A	330		N/A				
EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A	N/A	380		N/A				
TOTAL CLAIMS (37 CFR 1.16(j))	20	minus 20 = *	x 50 =	0.00	OR					
INDEPENDENT CLAIMS (37 CFR 1.16(h))	3	minus 3 = *	x 230 =	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	785		TOTAL				
* If the difference in column 1 is less than zero, enter "0" in column 2.										
APPLICATION AS AMENDED - PART II										
(Column 1)		(Column 2)		(Column 3)		SMALL ENTITY		OR OTHER THAN SMALL ENTITY		
AMENDMENT A		CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE(\$)	ADDITIONAL FEE(\$)		RATE(\$)	ADDITIONAL FEE(\$)
	Total (37 CFR 1.16(i))	*	Minus	**	=	x	=	OR	x	=
	Independent (37 CFR 1.16(h))	*	Minus	***	=	x	=	OR	x	=
	Application Size Fee (37 CFR 1.16(s))							OR		
	FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							OR		
						TOTAL ADD'L FEE		OR	TOTAL ADD'L FEE	
(Column 1)		(Column 2)		(Column 3)		SMALL ENTITY		OR OTHER THAN SMALL ENTITY		
AMENDMENT B		CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE(\$)	ADDITIONAL FEE(\$)		RATE(\$)	ADDITIONAL FEE(\$)
	Total (37 CFR 1.16(i))	*	Minus	**	=	x	=	OR	x	=
	Independent (37 CFR 1.16(h))	*	Minus	***	=	x	=	OR	x	=
	Application Size Fee (37 CFR 1.16(s))							OR		
	FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							OR		
						TOTAL ADD'L FEE		OR	TOTAL ADD'L FEE	
* If the entry in column 1 is less than the entry in column 2, write "0" in column 3. ** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20". *** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3". The "Highest Number Previously Paid For" (Total or Independent) is the highest found in the appropriate box in column 1.										

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

UTILITY PATENT APPLICATION TRANSMITTAL <i>(Only for new nonprovisional applications under 37 CFR 1.53(b))</i>		Attorney Docket No. 023027-0509067	
		First Named Inventor Michael R. MANZANO	
		Title PRE-FILE-TRANSFER UPDATE BASED ON PRIORITIZED METADATA	
		Priority Mail Express® Label No.	

APPLICATION ELEMENTS <i>See MPEP chapter 600 concerning utility patent application contents.</i>	ADDRESS TO: Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450
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<ol style="list-style-type: none"> 1. <input type="checkbox"/> Fee Transmittal Form (PTO/SB/17 or equivalent) 2. <input checked="" type="checkbox"/> Applicant asserts small entity status. <i>See 37 CFR 1.27</i> 3. <input type="checkbox"/> Applicant certifies micro entity status. <i>See 37 CFR 1.29.</i> Applicant must attach form PTO/SB/15A or B or equivalent. 4. <input checked="" type="checkbox"/> Specification [Total Pages <u>27</u>] Both the claims and abstract must start on a new page. <i>(See MPEP § 608.01(a) for information on the preferred arrangement)</i> 5. <input checked="" type="checkbox"/> Drawing(s) (35 U.S.C. 113) [Total Sheets <u>3</u>] 6. Inventor's Oath or Declaration [Total Pages <u>2</u>] <i>(including substitute statements under 37 CFR 1.64 and assignments serving as an oath or declaration under 37 CFR 1.63(e))</i> <ol style="list-style-type: none"> a. <input type="checkbox"/> Newly executed (original or copy) b. <input checked="" type="checkbox"/> A copy from a prior application (37 CFR 1.63(d)) 7. <input checked="" type="checkbox"/> Application Data Sheet * <i>See note below.</i> <i>See 37 CFR 1.76 (PTO/AIA/14 or equivalent)</i> 8. CD-ROM or CD-R in duplicate, large table, or Computer Program (<i>Appendix</i>) <input type="checkbox"/> Landscape Table on CD 9. Nucleotide and/or Amino Acid Sequence Submission <i>(if applicable, items a. – c. are required)</i> <ol style="list-style-type: none"> a. <input type="checkbox"/> Computer Readable Form (CRF) b. <input type="checkbox"/> Specification Sequence Listing on: <ol style="list-style-type: none"> i. <input type="checkbox"/> CD-ROM or CD-R (2 copies); or ii. <input type="checkbox"/> Paper c. <input type="checkbox"/> Statements verifying identity of above copies 	ACCOMPANYING APPLICATION PAPERS <ol style="list-style-type: none"> 10. <input type="checkbox"/> Assignment Papers (cover sheet & document(s)) Name of Assignee _____ 11. <input checked="" type="checkbox"/> 37 CFR 3.73(c) Statement <input checked="" type="checkbox"/> Power of Attorney <i>(when there is an assignee)</i> 12. <input type="checkbox"/> English Translation Document <i>(if applicable)</i> 13. <input checked="" type="checkbox"/> Information Disclosure Statement (PTO/SB/08 or PTO-1449) <input type="checkbox"/> Copies of citations attached 14. <input type="checkbox"/> Preliminary Amendment 15. <input type="checkbox"/> Return Receipt Postcard <i>(MPEP § 503) (Should be specifically itemized)</i> 16. <input type="checkbox"/> Certified Copy of Priority Document(s) <i>(if foreign priority is claimed)</i> 17. <input type="checkbox"/> Nonpublication Request Under 35 U.S.C. 122(b)(2)(B)(i). Applicant must attach form PTO/SB/35 or equivalent. 18. <input checked="" type="checkbox"/> Other: Track 1 Request Request for First Action Interview _____ _____ _____
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***Note:** (1) Benefit claims under 37 CFR 1.78 and foreign priority claims under 1.55 **must** be included in an Application Data Sheet (ADS).
 (2) For applications filed under 35 U.S.C. 111, the application must contain an ADS specifying the applicant if the applicant is an assignee, person to whom the inventor is under an obligation to assign, or person who otherwise shows sufficient proprietary interest in the matter. See 37 CFR 1.46(b).

19. CORRESPONDENCE ADDRESS				
<input checked="" type="checkbox"/> The address associated with Customer Number: <u>00909</u> OR <input type="checkbox"/> Correspondence address below				
Name				
Address				
City	State	Zip Code		
Country	Telephone	Email		

Signature	/Ngai B. Zhang/	Date	January 23, 2020
Name (Print/Type)	Ngai B. Zhang	Registration No. (Attorney/Agent)	65,473

This collection of information is required by 37 CFR 1.53(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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

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

**SUBSTITUTE STATEMENT IN LIEU OF AN OATH OR DECLARATION FOR UTILITY
OR DESIGN PATENT APPLICATION (35 U.S.C. 115(d) AND 37 CFR 1.64)**

Title of Invention	ARCHITECTURE FOR MANAGEMENT OF DIGITAL FILES ACROSS DISTRIBUTED NETWORK		
This statement is directed to:			
<input type="checkbox"/> The attached application,			
OR			
<input checked="" type="checkbox"/> United States application or PCT international application number <u>14/860,289</u> filed on <u>September 21, 2015</u> .			
LEGAL NAME of inventor to whom this substitute statement applies:			
(E.g., Given Name (first and middle (if any)) and Family Name or Surname)			
Michael R. MANZANO			
Residence (except for a deceased or legally incapacitated inventor):			
City	Henderson	State	NV
		Country	USA
Mailing Address (except for a deceased or legally incapacitated inventor):			
1552 Livingston Drive			
City	Henderson	State	NV
		Zip	89012
		Country	USA
I believe the above-named inventor or joint inventor to be the original inventor or an original joint inventor of a claimed invention in the application.			
The above-identified application was made or authorized to be made by me.			
I hereby acknowledge that any willful false statement made in this statement is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.			
Relationship to the inventor to whom this substitute statement applies:			
<input type="checkbox"/> Legal Representative (for deceased or legally incapacitated inventor only),			
<input checked="" type="checkbox"/> Assignee,			
<input type="checkbox"/> Person to whom the inventor is under an obligation to assign,			
<input type="checkbox"/> Person who otherwise shows a sufficient proprietary interest in the matter (petition under 37 CFR 1.46 is required), or			
<input type="checkbox"/> Joint Inventor.			

[Page 1 of 2]

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.

Box & Dropbox Exhibit 1010

Page 191

SUBSTITUTE STATEMENT

Circumstances permitting execution of this substitute statement:

- ☐ Inventor is deceased,
- ☐ Inventor is under legal incapacity,
- ☒ Inventor cannot be found or reached after diligent effort, or
- ☐ Inventor has refused to execute the oath or declaration under 37 CFR 1.63.

If there are joint inventors, please check the appropriate box below:

- ☐ An application data sheet under 37 CFR 1.76 (PTO/AIA/14 or equivalent) naming the entire inventive entity has been or is currently submitted.

OR

- ☐ An application data sheet under 37 CFR 1.76 (PTO/AIA/14 or equivalent) has not been submitted. Thus, a Substitute Statement Supplemental Sheet (PTO/AIA/11 or equivalent) naming the entire inventive entity and providing inventor information is attached. See 37 CFR 1.64(b).

WARNING:

Petitioner/applicant is cautioned to avoid submitting personal information in documents filed in a patent application that may contribute to identity theft. Personal information such as social security numbers, bank account numbers, or credit card numbers (other than a check or credit card authorization form PTO-2038 submitted for payment purposes) is never required by the USPTO to support a petition or an application. If this type of personal information is included in documents submitted to the USPTO, petitioners/applicants should consider redacting such personal information from the documents before submitting them to the USPTO. Petitioner/applicant is advised that the record of a patent application is available to the public after publication of the application (unless a non-publication request in compliance with 37 CFR 1.213(a) is made in the application) or issuance of a patent. Furthermore, the record from an abandoned application may also be available to the public if the application is referenced in a published application or an issued patent (see 37 CFR 1.14). Checks and credit card authorization forms PTO-2038 submitted for payment purposes are not retained in the application file and therefore are not publicly available.

PERSON EXECUTING THIS SUBSTITUTE STATEMENT:

Name: Janine Terrano

Date (Optional):

Signature:

**APPLICANT NAME AND TITLE OF PERSON EXECUTING THIS SUBSTITUTE STATEMENT:**

If the applicant is a juristic entity, list the applicant name and the title of the signer:

Topia Technology, Inc.

Applicant Name:

Title of Person Executing This Substitute Statement: Chief Executive Officer of Topia Technology, Inc.

The signer, whose title is supplied above, is authorized to act on behalf of the applicant.

Residence of the signer (unless provided in an application data sheet, PTO/AIA/14 or equivalent):

City

Gig Harbor

State

WA

Country

USA

Mailing Address of the signer (unless provided in an application data sheet, PTO/AIA/14 or equivalent)

1119 Pacific Avenue, Suite 200

City

Tacoma

State

WA

Zip

98402

Country

USA

Note: Use an additional PTO/AIA/02 form for each inventor who is deceased, legally incapacitated, cannot be found or reached after diligent effort, or has refused to execute the oath or declaration under 37 CFR 1.63.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re the Application of:

Michael R. MANZANO

Group Art Unit: Unassigned

Application No.: **New** (Continuation of U.S.
Application No. 16/361,641)

Examiner: Unassigned

Filed: January 23, 2020

Confirmation No.: Unassigned

For: PRE-FILE-TRANSFER UPDATE BASED ON PRIORITIZED METADATA

INFORMATION DISCLOSURE STATEMENT

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

Dear Commissioner:

Pursuant to 37 CFR 1.56, the attention of the Patent and Trademark Office is hereby directed to the references listed on the attached PTO-1449. It is respectfully requested that the information be expressly considered during the prosecution of this application, and that the references be made of record therein and appear among the "References Cited" on any patent to issue therefrom. Applicant respectfully requests the Examiner return an initialed copy of the enclosed Form PTO-1449 to Applicant with the next Office communication to indicate that the references have been considered, per MPEP § 609.

This Information Disclosure Statement is being filed (a) within three months of the U.S. filing date of this non-CPA application, OR (b) before the mailing date of the first Office Action on the merits in the present application. No certification or fee is required.

The references were cited by or submitted to the Office in parent application no. 16/361,641, filed March 22, 2019, which is relied upon for an earlier filing date under 35 U.S.C. § 120. Thus, copies of these references are not attached. 37 C.F.R. § 1.98(d).

Respectfully Submitted,

PILLSBURY WINTHROP SHAW PITTMAN LLP

/Ngai B. Zhang/

Ngai B. Zhang
Registration Number 65,473
Customer Number: 00909

Date: January 23, 2020
Telephone: (703) 770-7900
Facsimile: (703) 770-7901
P.O. Box 10500
McLean, VA 22102

FORM PTO-1449 (modified)
To: U.S. Department of Commerce
(PW FORM PAT-1449)
Patent and Trademark Office

Atty.
Dkt. No.

M#

023027

0509067

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Inventor(s): Michael R. MANZANO

Appln. No.: New

Filing Date: January 23, 2020

Date: January 23, 2020

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Examiner: Unassigned

Group Art Unit: Unassigned

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	AR	6,463,463	10/2002	GODFREY et al.			
	BR	6,504,994	01/2003	KAWAMURA et al.			
	CR	6,505,200	01/2003	IMS et al.			
	DR	6,611,849	08/2003	RAFF et al.			
	ER	6,671,700	12/2003	CREEMER et al.			
	FR	6,708,221	03/2004	MENDEZ et al.			
	GR	6,757,696	06/2004	MULTER et al.			
	HR	6,760,759	07/2004	CHAN			
	IR	6,810,405	10/2004	LARUE et al.			
	JR	6,829,622	12/2004	BEYDA			
	KR	6,874,037	03/2005	ABRAM et al.			
	LR	6,931,454	08/2005	DESHPANDE et al.			
	MR	6,990,522	01/2006	WU			
	NR	7,024,428	04/2006	HUANG et al.			
	OR	7,054,594	05/2006	BLOCH et al.			

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					Enclosed	No
	PR					

OTHER (Including in this order Author, Title, Periodical Name, Date, Pertinent Pages, etc.)

	QR					
	RR					
	SR					
	TR					

Examiner

Date Considered:

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

Atty. Dkt. No.	M#	
023027	0509067	

**INFORMATION DISCLOSURE STATEMENT
BY APPLICANT**

Inventor(s): Michael R. MANZANO	
Appln. No.: New	
Filing Date: January 23, 2020	
Examiner: Unassigned	Group Art Unit: Unassigned

Date: January 23, 2020 Page **2** of **10**

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	UR 7,065,658	06/2006	BARABAN et al.			
	VR 7,089,307	08/2006	ZINTEL et al.			
	WR 7,155,488	12/2006	LUNSFORD et al.			
	XR 7,243,163	07/2007	FRIEND et al.			
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	ZR 7,290,244	10/2007	PECK et al.			
	AA 7,340,534	03/2008	CAMERON et al.			
	BB 7,398,327	07/2008	LEE			
	CC 7,415,615	08/2008	SKYGEBJER			
	DD 7,457,631	11/2008	YACH et al.			
	EE 7,467,353	12/2008	KURLANDER et al.			
	FF 7,483,925	01/2009	KOSKIMIES et al.			
	GG 7,526,575	04/2009	RABBERS et al.			
	HH 7,574,711	08/2009	ZONDERVAN et al.			
	IIR 7,584,186	09/2009	CHEN et al.			

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Document Number	Date MM/YYYY	Country	Inventor Name	English Abstract	Translation Readily Available
				Enclosed	No
JJR					

OTHER (Including in this order Author, Title, Periodical Name, Date, Pertinent Pages, etc.)

KKF					
LLR					
MM					
NNF					

Examiner _____ Date Considered: _____

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

FORM PTO-1449 (modified) To: U.S. Department of Commerce (PW FORM PAT-1449) Patent and Trademark Office				Atty. Dkt. No.	M#			
				023027	0509067			
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Inventor(s): Michael R. MANZANO				
				Appln. No.: New				
				Filing Date: January 23, 2020				
				Examiner: Unassigned		Group Art Unit: Unassigned		
Date: January 23, 2020				Page 3 of 10				
U.S. PATENT DOCUMENTS								
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	OO	7,587,446	09/2009	ONYON et al.				
	PP	7,613,773	11/2009	WATT				
	QQ	7,639,116	12/2009	SAUNDERS				
	RR	7,657,271	02/2010	KIM				
	SS	7,680,885	03/2010	SCHAUSER et al.				
	TT	7,752,166	07/2010	QUINLAN et al.				
	UU	7,761,414	07/2010	FREEDMAN				
	VV	7,895,334	02/2011	TU et al.				
	WW	7,987,420	07/2011	KLOBA et al.				
	XX	8,009,966	08/2011	BLOOM et al.				
	YY	8,112,549	02/2012	SRINIVASAN et al.				
	ZZ	8,244,288	08/2012	CHIPCHASE				
	AA	8,321,534	11/2012	ROSKIND et al.				
	BB	8,370,423	02/2013	OZZIE et al.				
	CC	8,386,558	02/2013	SCHLEIFER et al.				
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						Translation Readily Available		
						Enclosed	No	
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	EE							
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	GG							
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Inventor(s): Michael R. MANZANO

Appln. No.: New

Filing Date: January 23, 2020

Date: January 23, 2020

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10

Examiner: Unassigned

Group Art Unit: Unassigned

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	IIIR 2003/0038842	02/2003	PECK et al.			
	JJJ 2003/0125057	07/2003	PESOLA			
	KKK 2003/0135565	07/2003	ESTRADA			
	LLL 2004/0049345	03/2004	MCDONOUGH et al.			
	MM 2005/0097225	05/2005	GLATT et al.			
	NN 2005/0220080	10/2005	RONKAINEN et al.			
	OO 2006/0058907	03/2006	SUDERMAN			
	PP 2006/0189348	08/2006	MONTULLI et al.			
	QQ 2007/0014314	01/2007	O'NEIL			
	RR 2007/0191057	08/2007	KAMADA			
	SS 2007/0238440	10/2007	SENGUPTA et al.			
	TT 2008/0005280	01/2008	ADAMS			
	UU 2008/0086494	04/2008	HELLER et al.			
	VV 2008/0168526	07/2008	ROBBIN et al.			
	WW 2008/0288578	11/2008	SILFVERBERG			
	XX 2009/0063711	03/2009	FINKELSTEIN			

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OTHER (Including in this order Author, Title, Periodical Name, Date, Pertinent Pages, etc.)

ZZZ			
AAA			
BBB			
CCC			

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Atty. Dkt. No.	M#	
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**INFORMATION DISCLOSURE STATEMENT
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Inventor(s): Michael R. MANZANO	
Appln. No.: New	
Filing Date: January 23, 2020	
Examiner: Unassigned	Group Art Unit: Unassigned

Date: January 23, 2020 Page **5** of **10**

U.S. PATENT DOCUMENTS

Examiner's Initials*	Document Number	Date MM/YYYY	Name (Family Name of First Inventor)	Class	Sub Class	Filing Date (if appropriate)
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FOREIGN PATENT DOCUMENTS

	Document Number	Date MM/YYYY	Country	Inventor Name	English Abstract	Translation Readily Available
					Enclosed	No
EEE						

OTHER (Including in this order Author, Title, Periodical Name, Date, Pertinent Pages, etc.)

FFF	FolderShare - Secure Remote Access VPN Solution; Document Management & Real-time File Mirroring Solution; < https://web.archive.org/web/20040804020435/http://www.foldershare.com:80/ >; August 4, 2004.				
GGG	FolderShare; Your Files Anywhere; < https://web.archive.org/web/20030808183932/http://www.foldershare.com:80/ >; August 8, 2003.				
HHH	FolderShare - Secure Remote Access VPN Solution; Need your files on more than one computer?; < https://web.archive.org/web/20040814015727/http://www.foldershare.com:80/ >; August 14, 2004.				
III	FolderShare - Secure Remote Access VPN Solution; Need your files on more than one computer?; < https://web.archive.org/web/20040820052105/http://www.foldershare.com:80/ >; August 20, 2004.				
JJJ	FolderShare - Secure Remote Access VPN Solution; Need your files on more than one computer?; < https://web.archive.org/web/20041211020957/http://foldershare.com:80/ >; December 11, 2004.				
KKK	FolderShare - Secure Remote Access VPN Solution; Need your files on more than one computer?; < https://web.archive.org/web/20041217041726/http://foldershare.com:80/ >; December 17, 2004.				
LLL	FolderShare; Your Smart File Transfer Solution; < https://web.archive.org/web/20031220151508/http://www.foldershare.com:80/ >; December 20, 2003.				
MMM	FolderShare - Secure Remote Access VPN Solution; Need your files on more than one computer?; < https://web.archive.org/web/20041230211050/http://www.foldershare.com:80/ >; December 30, 2004.				
NNN	FolderShare - Secure Remote Access VPN Solution; Document Management & Real-time File Mirroring Solution; < https://web.archive.org/web/20040701113739/http://foldershare.com:80/ >; July 1, 2004.				
OOO	FolderShare - Secure Remote Access VPN Solution; Document Management & Real-time File Mirroring Solution; < https://web.archive.org/web/20040711062548/http://www.foldershare.com:80/ >; July 11, 2004.				

Examiner	Date Considered:
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Inventor(s): Michael R. MANZANO

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Examiner's Initials*	Document Number	Date MM/YYYY	Name (Family Name of First Inventor)	Class	Sub Class	Filing Date (if appropriate)
	PPF					
	QQQ					
	RRR					

FOREIGN PATENT DOCUMENTS

Document Number	Date MM/YYYY	Country	Inventor Name	English Abstract	Translation Readily Available
				Enclosed	No
SSS					

OTHER (Including in this order Author, Title, Periodical Name, Date, Pertinent Pages, etc.)

TTT	FolderShare; Your Files Anywhere; <https://web.archive.org/web/20030722054342/http://foldershare.com:80/>; July 22, 2003.
UUU	FolderShare - Secure Remote Access VPN Solution; Document Management & Real-time File Mirroring Solution; <https://web.archive.org/web/20040730030655/http://www.foldershare.com:80/>; July 30, 2004.
VVV	FolderShare - Secure Remote Access VPN Solution; Document Management & Real-time File Mirroring Solution; <https://web.archive.org/web/20040603205113/http://www.foldershare.com:80/>; June 3, 2004.
WWW	FolderShare - Secure Remote Access VPN Solution; Document Management & Real-time File Mirroring Solution; <https://web.archive.org/web/20040613161906/http://www.foldershare.com:80/>; June 13, 2004.
XXX	FolderShare - Secure Remote Access VPN Solution; Document Management & Real-time File Mirroring Solution; <https://web.archive.org/web/20040629075057/http://www.foldershare.com:80/>; June 29, 2004.
YYY	FolderShare - Secure Remote Access VPN Solution; Your Smart File Transfer & Real-time File Mirroring Solution; <https://web.archive.org/web/20040316235151/http://foldershare.com:80/>; March 16, 2004.
ZZZ	FolderShare - Secure Remote Access VPN Solution; Your Smart File Transfer & Real-time File Mirroring Solution; <https://web.archive.org/web/20040325034239/http://www.foldershare.com:80/>; March 25, 2004.
AAA	FolderShare - Secure Remote Access VPN Solution; Document Management & Real-time File Mirroring Solution; <https://web.archive.org/web/20040512211417/http://www.foldershare.com:80/>; May 12, 2004.
BBB	FolderShare; Your Files Anywhere; <https://web.archive.org/web/20030531180252/http://www.foldershare.com:80/>; May 31, 2003.
CCC	FolderShare - Secure Remote Access VPN Solution; Need your files on more than one computer?; <https://web.archive.org/web/20041104031510/http://www.foldershare.com:80/>; November 4, 2004.

Examiner

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Inventor(s): Michael R. MANZANO			
				Appln. No.: New			
				Filing Date: January 23, 2020			
				Examiner: Unassigned		Group Art Unit: Unassigned	
Date: January 23, 2020				Page 7 of 10			
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Examiner's Initials*		Document Number	Date MM/YYYY	Name (Family Name of First Inventor)	Class	Sub Class	Filing Date (if appropriate)
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FOREIGN PATENT DOCUMENTS							
		Document Number	Date MM/YYYY	Country	Inventor Name	English Abstract	
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						Enclosed	No
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	FFF	FolderShare - Secure Remote Access VPN Solution; Need your files on more than one computer?; <https://web.archive.org/web/20041117092357/http://www.foldershare.com:80/>; November 17, 2004.					
	GGG	FolderShare - Secure Remote Access VPN Solution; Need your files on more than one computer?; <https://web.archive.org/web/20041123085254/http://www.foldershare.com:80/>; November 23, 2004.					
	HHH	FolderShare; Your Files Anywhere; <https://web.archive.org/web/20031128143634/http://foldershare.com:80/>; November 28, 2003.					
	IIII	FolderShare; Your Files Anywhere; <https://web.archive.org/web/20031001071631/http://foldershare.com:80/>; October 1, 2003.					
	JJJ	FolderShare - Secure Remote Access VPN Solution; Need your files on more than one computer?; <https://web.archive.org/web/20041012083127/http://www.foldershare.com:80/>; October 12, 2004.					
	KKK	FolderShare - Secure Remote Access VPN Solution; Need your files on more than one computer?; <https://web.archive.org/web/20041029085820/http://www.foldershare.com:80/>; October 29, 2004.					
	LLL	FolderShare - Secure Remote Access VPN Solution; Need your files on more than one computer?; <https://web.archive.org/web/20040901034646/http://www.foldershare.com:80/>; September 1, 2004.					
	MMM	FolderShare - Secure Remote Access VPN Solution; Need your files on more than one computer?; <https://web.archive.org/web/20040909075254/http://www.foldershare.com:80/>; September 9, 2004.					
	NNN	FolderShare; Your Files Anywhere; <https://web.archive.org/web/20030920051943/http://www.foldershare.com:80/>; September 20, 2003.					
	OOO	FolderShare - Secure Remote Access VPN Solution; Need your files on more than one computer?; <https://web.archive.org/web/20040924032146/http://www.foldershare.com:80/>; September 24, 2004.					
Examiner					Date Considered:		
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				Appln. No.: New			
				Filing Date: January 23, 2020			
				Examiner: Unassigned		Group Art Unit: Unassigned	
Date: January 23, 2020				Page 8 of 10			
U.S. PATENT DOCUMENTS							
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	PPF	2006/0074985	04/2006	WOLFISH			
	QQ	2006/0143129	06/2006	HOLM			
	RR	2004/0133629	07/2004	REYNOLDS			
	SS	2002/0035697	03/2002	MCCURDY			
	TT	2003/0028514	02/2003	LORD			
	UU	2003/0078946	04/2003	COSTELLO			
	VV	2007/0180084	08/2007	MOHANTY			
	WW	9,143,561	09/2015	MANZANO			
	XX	2007/0016629	01/2007	REINSCH			
	YY	5,806,078	09/1998	HUG			
	ZZ	2007/0027936	02/2007	STAKUTIS			
	AA	2008/0005114	01/2008	LI			
	BB	5,909,581	06/1999	PARK			
	CC	2004/0158817	08/2004	OKACHI			
	DD	2009/0013009	01/2009	NAKAYAMA			
	EE	2006/0168118	07/2006	GODLIN			
	FF	2006/0129627	06/2006	PHILLIPS			
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		Document Number	Date MM/YYYY	Country	Inventor Name	Translation Readily Available	
						Enclosed	No
	GG	WO 98/56149 A1	12/1998	WO	GENELL		
	HH	WO 2007/047302 A2	04/2007	WO	CHEN et al.		
	IIIIII	EP 1 130 511 A2	09/2001	EP	MULTER		
OTHER (Including in this order Author, Title, Periodical Name, Date, Pertinent Pages, etc.)							
	JJJ						
	KK						
	LLL						
	MM						
Examiner					Date Considered:		
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Inventor(s): Michael R. MANZANO

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Examiner: Unassigned

Group Art Unit: Unassigned

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Examiner's Initials*	Document Number	Date MM/YYYY	Name (Family Name of First Inventor)	Class	Sub Class	Filing Date (if appropriate)
NNN	7,325,038	01/2008	Wang			
OOO	7,260,646	08/2007	Stefanik et al.			
PPF	2005/0091316	04/2005	Ponce et al.			
QQQ	2007/0180084	08/2007	Mohanty			
RRR	2002/0026478	02/2002	Rodgers et al.			
SSS	2007/0027936	02/2007	Stakutis et al.			
TTT	2008/0005114	01/2008	Li			
UUU	2004/0172424	09/2004	Edelstein et al.			
VVV	2013/0226871	08/2013	Sarnowski			
WWW	2004/0107225	06/2004	Rudoff			
XXX	2006/0010150	01/2006	Shaath et al.			
YYY	5,600,834	02/1997	Howard			
ZZZ	5,806,078	09/1998	Hug et al.			
AAA	6,449,624	09/2002	Hammack et al.			
BBB	2003/0028542	02/2003	Muttik et al.			
CCC	6,026,414	02/2000	Anglin			
DDD	6,154,817	11/2000	Mohan et al.			
EEE	6,260,069	07/2001	Anglin			
FFF	2002/0087588	07/2002	McBride et al.			
GGG	6,606,646	08/2003	Feigenbaum			
HHH	2004/0093361	05/2004	Therrien et al.			
IIIII	7,136,934	11/2006	Carter et al.			
JJJ	2007/0100913	05/2007	Sumner et al.			
KKK	7,224,973	05/2007	Tsutazawa et al.			
LLL	7,788,303	08/2010	Mikesell et al.			

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Document Number	Date MM/YYYY	Country	Inventor Name	English Abstract	Translation Readily Available
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Examiner: Unassigned	Group Art Unit: Unassigned

Date: January 23, 2020 Page 10 of 10

U.S. PATENT DOCUMENTS

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	MM8,565,729	10/2013	MOSELER et al.			
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	OO2009/0282050	11/2009	THOMAS et al.			
	PP7,035,847	04/2006	BROWN et al.			
	QQ7,680,838	03/2010	SHAW			
	RR7,885,925	02/2011	STRONG et al.			
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	BB6,826,626	11/2004	MCMANUS			
	CC7,263,493	08/2007	PROVOST			
	DD7,162,501	01/2007	KUPKOVA			
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	GG7,149,760	12/2006	BREUER			

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Document Number	Date MM/YYYY	Country	Inventor Name	English Abstract	Translation Readily Available
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HH					

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IIIIII	MARSHALL, M., "The Y Combinator List," Venture Beat, August 2007, Retrieved from the Internet: URL: <https://venturebeat.com/2007/08/16/the-y-combinator-list/>, 4 pages.				
JJJ	JARVIS, A., "Dropbox pitch deck to raise seed capital investment, " Medium, March 2018, Retrieved from the Internet: URL: <https://medium.com/@adjblog/dropbox-pitch-deck-to-raise-seed-capital-investment-6a6cd6517e56>, 12 pages.				

Examiner _____ Date Considered: _____

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REQUEST FOR FIRST ACTION INTERVIEW (FULL PILOT PROGRAM)

Attorney Docket Number: 023027-0509067	Application Number (if known): New	Filing date: January 23, 2020
First Named Inventor: Michael R. MANZANO	Title: PRE-FILE-TRANSFER UPDATE BASED ON PRIORITIZED METADATA	

APPLICANT HEREBY REQUESTS A FIRST ACTION INTERVIEW IN THE ABOVE-IDENTIFIED APPLICATION. See Instruction Sheet on page 2.

1. The application must contain three (3) or fewer independent claims and twenty (20) or fewer total claims.
2. The application must not contain any multiple dependent claims.
3. By filing this request:

Applicant is agreeing to make an election without traverse if the Office determines that the claims are not obviously directed to a single invention; and

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Signature /Ngai B. Zhang/	Date January 23, 2020
Name (Print/Typed) Ngai B. Zhang	Registration Number 65,473
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PRE-FILE-TRANSFER UPDATE BASED ON PRIORITIZED METADATA

CROSS-REFERENCE TO RELATED APPLICATIONS

[0001] This application is a continuation of U.S. Patent Application No. 16/361,641, filed March 22, 2019, which is a continuation of U.S. Patent Application No. 16/017,348, filed June 25, 2018, which is a continuation of U.S. Patent Application No. 14/860,289, filed September 21, 2015, now U.S. Patent No. 10,067,942, which is a continuation of U.S. Patent Application No. 12/267,852, filed November 10, 2008, now U.S. Patent No. 9,143,561, which claims priority to U. S. Provisional Application No. 60/986,896 entitled "ARCHITECTURE FOR MANAGEMENT OF DIGITAL FILES ACROSS DISTRIBUTED NETWORK" and filed November 9, 2007, the contents of which are hereby incorporated by reference in their entirety.

FIELD OF THE INVENTION

[0002] This invention relates generally to computer-implemented processes and, more specifically, to sharing of electronic files among computer systems.

BACKGROUND OF THE INVENTION

[0003] Users of modern computing systems are increasingly finding themselves in constantly-connected, high-speed networked environments. The Web continues to be a killer application, second only to email, on the Internet. Further, customers are increasingly using more than one computing device; a customer may have a desktop computer at home, one at work, and a constantly connected "smart phone". Due to the confluence of these two trends, file management across these devices has become a problem.

[0004] Although modern devices are easily connected, they do not provide the customer a seamless environment; the customer must manually handle many aspects of

that connection. With regards to file management, customers must manually move files between their devices using some protocol like email, ftp, or by posting them on the Web. These practices lead to problems that include:

[0005] • The proliferation of redundant file copies. This proliferation creates a confusing environment where the customer is unclear where the "official" or newest version of a file exists.

[0006] • The creation of an error-prone environment. Some documents, such as those associated with word processing and desktop publishing, externally reference other files. Copying such a document can break these references causing errors that the customer has to handle manually. An example of such a document is a desktop publishing document that contains a reference to an image. If that image file is not transferred along with the desktop publishing file, the image will appear as a broken link.

[0007] • Unnecessary complexity. Because devices tend to have their own filing system, customers must manage a different filing model on each of his devices. For example, instead of having a single "Movies" folder, he may have to deal with many "Movies" folders, which may be in different locations on each of his devices. Each device may also have its own security model, further complicating the matter.

[0008] That a customer has to manually move files around to ensure their accessibility on his devices is unnecessary, and is an indicator of a lack of customer-focused design in modern file systems. File systems in use today are direct offspring of systems used when graphical customer interfaces were nonexistent. Modern file system customer interfaces, such as Windows® Explorer and Mac OS X's Finder are just now starting to provide experiences that are more in line to a customer's workflow. Whereas, before, these interfaces were concerned with representing files with abstracted icons, the file's actual contents are becoming paramount in how files are organized and presented.

[0009] Problems still exist with how these newer customer interfaces are implemented. They are not completely integrated with applications, suffer from

performance problems, and do not generally work well outside of a device's local file system.

[0010] There are several solutions to this problem that are in one way or another inadequate to the task:

[0011] Remote Desktop software allows a customer to remotely "see" his desktop. Remote desktop software screen-scrapes a remote machine's screen (a "server") and displays it on a screen local to the customer (a "client"). Remote desktop gives a customer access to not only his files, but also to his applications. However, this approach requires that the host machine be turned on and connected to the internet at all times. Consequently, this approach would not be appropriate for mobile hosts such as laptops. Remote desktop does not use the resources of a local machine. For full accessibility, the customer would have to keep all files and application on the host machine as any files stored on a client are not guaranteed to be accessible.

[0012] Distributed File Systems, like remote desktop software, place data on an always-connected host machine. Unlike remote desktop software, the host machine is not one on which the customer performs computing tasks. The host machine is used as a storage mechanism, and any computation performed on that machine serves to supports its use as such. Distributed file systems generally provide the right functionality for customers to share files between their devices. However, distributed file systems are usually deployed as a shared resource; that is, other customers have access to it. Because of this sharing, a customer's files may be buried deep in a filing structure, and it may not always be immediately evident to customers what kind of access they have to a particular file. Further, to use a distributed file system, the customer must always be connected to it. Files stored on a distributed file system are generally inaccessible if the customer's machine is not connected to it, unless the customer has copied or moved the files to his machine's local hard drive. However, doing so immediately creates the problem of having two filing systems for the same file, creating a mental burden on the customer.

[0013] Additionally, accessing a file located on a distributed file system tends to be slower than accessing files on the local hard drive. Modern applications are usually written to assume that the files they access are located locally, and thus are not optimized to access remote files. When these applications are used with remote files, they can lose performance by an order of magnitude. This problem can be fixed by automatically caching often-used files on the local file system, and only synchronizing them when they have been changed. However, this separate synchronization step introduces another problem: because the synchronization process can be lengthy, the customer is never entirely sure if the file he is remotely accessing is the latest version of the file, versus an earlier one that has been marked to be updated. Further, the directory may not reflect the existence of the file at all until synchronization finishes.

[0014] FTP is similar to a distributed file system with regards to files being hosted on a remote server. However FTP generally does manifest as a "disk drive" on the customer's desktop; the customer must use special FTP client software to access an FTP server. It shares the same problem as distributed file systems, with the additional problem of weak integration with applications. Applications can generally write and read files directly to and from a distributed file system. This is not the case with FTP, as the customer has to manually use the client software to perform these operations as a separate task.

[0015] Email was originally invented for messaging. From the beginning, the model it employs to make files accessible remotely is necessarily inefficient. Email's model for making files accessible is in the form of an email "attachment". Attachments are so named because they piggy-back on a message sent from one customer to another. A customer can make a file remotely available using email by attaching the file to an email and sending it to himself. He can then retrieve the file from a remote location by accessing the message on the email server. Email used in this way is even worse than FTP as the process is even more manual: a customer must find the message containing the file before he can even access it. Further, the location in which the attachment lives is read only. If the

customer, for example, were to open the file, change it, then save it back out, the results would be ambiguous to the user because the email application, not the user, specified its location. Usually, the saved file would end up buried in an email file cache in an undisclosed area of the file system.

[0016] Flash Drives and External Disk Drives, although seemingly the most "primitive" way to ensure file availability, avoid all the problems related to network latency. However, these devices must be physically connected to the computer on which the files will be accessed. These restrictions preclude the customer from employing several effective work-flows including: using more than one computer to complete a single task (the files can only be accessed on one computer) and setting up an automated backup (the computer running the backup can't guarantee that the storage device will be connected come backup time). Further, to ensure full availability of the files, the customer must carry the device with them at all times, and must follow the associated protocols for mounting and dismounting the device.

[0017] Other problems with the prior art not described above can also be overcome using the teachings of embodiments of the present invention, as would be readily apparent to one of ordinary skill in the art after reading this disclosure.

SUMMARY OF THE INVENTION

[0018] In certain embodiments, automatic modification-triggered transfer of a file among two or more computer systems associated with a user. In some embodiments, a copy of a first file may be received, via a first application at a first computer system, from a second application at a second computer system associated with a user. The first file copy may be automatically received from the second application responsive to the user modifying a content of the first file, where the first file copy is a version of the first file that is generated from the user modifying the content of the first file. Responsive to

receiving the first file copy from the second computer system, the first file copy may be automatically transferred via the first application to a third computer system associated with the user to replace an older version of the first file stored on the third computer system.

[0019] In some embodiments, responsive to a user modifying a content of the file at a first client device (associated with the user), a server system may automatically receive a copy of the file from the first client device, where the file copy may be an updated version of the file that is generated from the user modifying the content of the file. After receiving metadata associated with the updated version of the file from the first client device, the server system may automatically transfer the metadata to a second client device associated with the user such that, before the file copy is transferred to the second client device, the transfer of the metadata to the second client device causes a file representation of the file presented on a user interface of the second client device to be updated based on the metadata.

BRIEF DESCRIPTION OF THE DRAWING

[0020] Preferred and alternative embodiments of the present invention are described in detail below with reference to the following drawings.

[0021] FIG. 1 is a schematic view of an exemplary operating environment in which an embodiment of the invention can be implemented;

[0022] FIG. 2 is a functional block diagram of an exemplary operating environment in which an embodiment of the invention can be implemented; and

[0023] FIG. 3 is a functional block diagram illustrating file sharing and/or synchronization according to an embodiment of the invention.

DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENT

[0024] An embodiment of the invention leverages remote programming concepts by utilizing processes called mobile agents (sometimes referred to as mobile objects or agent objects). Generally speaking, these concepts provide the ability for an object (the mobile agent object) existing on a first ("host") computer system to transplant itself to a second ("remote host") computer system while preserving its current execution state. The operation of a mobile agent object is described briefly below.

[0025] The instructions of the mobile agent object, its preserved execution state, and other objects owned by the mobile agent object are packaged, or "encoded," to generate a string of data that is configured so that the string of data can be transported by all standard means of communication over a computer network. Once transported to the remote host, the string of data is decoded to generate a computer process, still called the mobile agent object, within the remote host system. The decoded mobile agent object includes those objects encoded as described above and remains in its preserved execution state. The remote host computer system resumes execution of the mobile agent object which is now operating in the remote host environment.

[0026] While now operating in the new environment, the instructions of the mobile agent object are executed by the remote host to perform operations of any complexity, including defining, creating, and manipulating data objects and interacting with other remote host computer objects.

[0027] File transfer and/or synchronization, according to an embodiment, may be accomplished using some or all of the concepts described in commonly owned U. S. Patent App. No. 11/739,083, entitled "Electronic File Sharing," the entirety of which is incorporated by reference as if fully set forth herein.

[0028] FIG. 1 illustrates an example of a suitable computing system environment 100 in which one or more embodiments of the invention may be implemented. The computing system environment 100 is only one example of a suitable computing environment and is not intended to suggest any limitation as to the scope of use or

functionality of the invention. Neither should the computing environment 100 be interpreted as having any dependency or requirement relating to any one or combination of components illustrated in the exemplary operating environment 100.

[0029] Embodiments of the invention are operational with numerous other general purpose or special purpose computing system environments or configurations. Examples of well known computing systems, environments, and/or configurations that may be suitable for use with the invention include, but are not limited to, personal computers, server computers, hand-held or laptop devices, multiprocessor systems, microprocessor-based systems, set top boxes, programmable consumer electronics, network PCs, minicomputers, mainframe computers, distributed computing environments that include any of the above systems or devices, and the like.

[0030] Embodiments of the invention may be described in the general context of computer-executable instructions, such as program modules, being executed by a computer and/or by computer-readable media on which such instructions or modules can be stored. Generally, program modules include routines, programs, objects, components, data structures, etc. that perform particular tasks or implement particular abstract data types. The invention may also be practiced in distributed computing environments where tasks are performed by remote processing devices that are linked through a communications network. In a distributed computing environment, program modules may be located in both local and remote computer storage media including memory storage devices.

[0031] With reference to FIG. 1, an exemplary system for implementing the invention includes a general purpose computing device in the form of a computer 110. Components of computer 110 may include, but are not limited to, a processing unit 120, a system memory 130, and a system bus 121 that couples various system components including the system memory to the processing unit 120. The system bus 121 may be any of several types of bus structures including a memory bus or memory controller, a peripheral bus, and a local bus using any of a variety of bus architectures. By way of

example, and not limitation, such architectures include Industry Standard Architecture (ISA) bus, Micro Channel Architecture (MCA) bus, Enhanced ISA (EISA) bus, Video Electronics Standards Association (VESA) local bus, and Peripheral Component Interconnect (PCI) bus also known as Mezzanine bus.

[0032] Computer 110 typically includes a variety of computer readable media. Computer readable media can be any available media that can be accessed by computer 110 and includes both volatile and nonvolatile media, removable and non-removable media. By way of example, and not limitation, computer readable media may comprise computer storage media and communication media. Computer storage media includes both volatile and nonvolatile, removable and non-removable media implemented in any method or technology for storage of information such as computer readable instructions, data structures, program modules or other data. Computer storage media includes, but is not limited to, RAM, ROM, EEPROM, flash memory or other memory technology, CD-ROM, digital versatile disks (DVD) or other optical disk storage, magnetic cassettes, magnetic tape, magnetic disk storage or other magnetic storage devices, or any other medium which can be used to store the desired information and which can be accessed by computer 110. Communication media typically embodies computer readable instructions, data structures, program modules or other data in a modulated data signal such as a carrier wave or other transport mechanism and includes any information delivery media. The term “modulated data signal” means a signal that has one or more of its characteristics set or changed in such a manner as to encode information in the signal. By way of example, and not limitation, communication media includes wired media such as a wired network or direct-wired connection, and wireless media such as acoustic, RF, infrared and other wireless media. Combinations of the any of the above should also be included within the scope of computer readable media.

[0033] The system memory 130 includes computer storage media in the form of volatile and/or nonvolatile memory such as read only memory (ROM) 131 and random

access memory (RAM) 132. A basic input/output system 133 (BIOS), containing the basic routines that help to transfer information between elements within computer 110, such as during start-up, is typically stored in ROM 131. RAM 132 typically contains data and/or program modules that are immediately accessible to and/or presently being operated on by processing unit 120. By way of example, and not limitation, FIG. 1 illustrates operating system 134, application programs 135, other program modules 136, and program data 137.

[0034] The computer 110 may also include other removable/non-removable, volatile/nonvolatile computer storage media. By way of example only, FIG. 1 illustrates a hard disk drive 140 that reads from or writes to non-removable, nonvolatile magnetic media, a magnetic disk drive 151 that reads from or writes to a removable, nonvolatile magnetic disk 152, and an optical disk drive 155 that reads from or writes to a removable, nonvolatile optical disk 156 such as a CD ROM or other optical media. Other removable/non-removable, volatile/nonvolatile computer storage media that can be used in the exemplary operating environment include, but are not limited to, magnetic tape cassettes, flash memory cards, digital versatile disks, digital video tape, solid state RAM, solid state ROM, and the like. The hard disk drive 141 is typically connected to the system bus 121 through a non-removable memory interface such as interface 140, and magnetic disk drive 151 and optical disk drive 155 are typically connected to the system bus 121 by a removable memory interface, such as interface 150.

[0035] The drives and their associated computer storage media discussed above and illustrated in FIG. 1, provide storage of computer readable instructions, data structures, program modules and other data for the computer 110. In FIG. 1, for example, hard disk drive 141 is illustrated as storing operating system 144, application programs 145, other program modules 146, and program data 147. Note that these components can either be the same as or different from operating system 134, application programs 135, other program modules 136, and program data 137. Operating system 144, application programs 145, other program modules 146, and program data 147 are given different numbers here to

illustrate that, at a minimum, they are different copies. A user may enter commands and information into the computer 20 through input devices such as a keyboard 162 and pointing device 161, commonly referred to as a mouse, trackball or touch pad. Other input devices (not shown) may include a microphone, joystick, game pad, satellite dish, scanner, or the like. These and other input devices are often connected to the processing unit 120 through a user input interface 160 that is coupled to the system bus, but may be connected by other interface and bus structures, such as a parallel port, game port or a universal serial bus (USB). A monitor 191 or other type of display device is also connected to the system bus 121 via an interface, such as a video interface 190. In addition to the monitor, computers may also include other peripheral output devices such as speakers 197 and printer 196, which may be connected through an output peripheral interface 190.

[0036] The computer 110 may operate in a networked environment using logical connections to one or more remote computers, such as a remote computer 180. The remote computer 180 may be a personal computer, a server, a router, a network PC, a peer device or other common network node, and typically includes many or all of the elements described above relative to the computer 110, although only a memory storage device 181 has been illustrated in FIG. 1. The logical connections depicted in FIG. 1 include a local area network (LAN) 171 and a wide area network (WAN) 173, but may also include other networks. Such networking environments are commonplace in offices, enterprise-wide computer networks, intranets and the Internet.

[0037] When used in a LAN networking environment, the computer 110 is connected to the LAN 171 through a network interface or adapter 170. When used in a WAN networking environment, the computer 110 typically includes a modem 172 or other means for establishing communications over the WAN 173, such as the Internet. The modem 172, which may be internal or external, may be connected to the system bus 121 via the user input interface 160, or other appropriate mechanism. In a networked environment, program modules depicted relative to the computer 110, or portions thereof,

may be stored in the remote memory storage device. By way of example, and not limitation, FIG. 1 illustrates remote application programs 185 as residing on memory device 181. It will be appreciated that the network connections shown are exemplary and other means of establishing a communications link between the computers may be used.

[0038] Referring now to FIG. 2, an embodiment of the present invention can be described in the context of an exemplary computer network system 200 as illustrated. System 200 includes electronic user devices 210, 280, such as personal computers or workstations, that are linked via a communication medium, such as a network 220 (*e.g.*, the Internet), to an electronic device or system, such as a server 230. The server 230 may further be coupled, or otherwise have access, to a database 240, electronic storage 270 and a computer system 260. Although the embodiment illustrated in FIG. 2 includes one server 230 coupled to two user devices 210, 280 via the network 220, it should be recognized that embodiments of the invention may be implemented using two or more such user devices coupled to one or more such servers.

[0039] In an embodiment, each of the user devices 210, 280 and server 230 may include all or fewer than all of the features associated with the computer 110 illustrated in and discussed with reference to FIG. 1. User devices 210, 280 include or are otherwise coupled to a computer screen or display 250, 290, respectively. User devices 210, 280 can be used for various purposes including both network- and local-computing processes.

[0040] The user devices 210, 280 are linked via the network 220 to server 230 so that computer programs, such as, for example, a browser or other applications, running on one or more of the user devices 210, 280 can cooperate in two-way communication with server 230 and one or more applications running on server 230. Server 230 may be coupled to database 240 and/or electronic storage 270 to retrieve information therefrom and to store information thereto. Additionally, the server 230 may be coupled to the computer system 260 in a manner allowing the server to delegate certain processing functions to the computer system.

[0041] Referring now to FIG. 3, illustrated is functionality of an embodiment of the invention allowing a user (not shown) who owns or otherwise controls devices 210, 280 to automatically maintain file synchronization between at least devices 210, 280, or any other user devices on which principles of the present invention are implemented. In an embodiment, an administrator (not shown) of the server 230 or other appropriate electronic device transfers a file-transfer and/or synchronization application to the user devices 210, 280 for installation thereon. Once installed on the user devices 210, 280, the file-transfer application provides file-transfer clients 310, 320 executable by the user devices 210, 280, respectively. Each of the file-transfer clients 310, 320 may, but need not, include a respective mobile-agent runtime environment 330, 340. The mobile-agent runtime environment 330, 340 include portions of memory of the user devices 210, 280 dedicated to allowing a mobile object the ability to perform operations that the mobile object is programmed to carry out. Also included in the file-transfer application are user interfaces 350, 360 that are displayable on the displays 250, 290, respectively. In an embodiment, the interfaces 350, 360 allow a user to view, access and/or organize files to be synched among the various user devices.

[0042] Generally, all files that the user desires to be synched or shared may at some point be uploaded by one or more of the user devices 210, 280 and stored in storage 270. Upon receiving the files to be synched, the server 230 can store such files in the storage 270 and/or transfer the files to one or more of the respective hard drives of the user devices 210, 280, thereby enabling each respective user device to access such files. In this manner, the server 230 is operable to treat each hard drive of the respective user devices 210, 280 as a local document cache for files received by the server. Typically, the server 230 will store one or more of the received files to the storage 270 only if the destination user device is offline or otherwise temporarily not in communication with the server 230. Upon resuming communication with the destination user device, the server 230 will transfer the temporarily stored files to the destination device.

[0043] In operation, according to an embodiment, the user may open and modify a file 370, such as a word-processing document or other electronic file. Alternatively, the user may create a first instance of the file 370. The user may have previously have associated, or may now associate, the file 370 with the transfer client 310. Upon a predetermined and user-configurable triggering event, the transfer client 310 transfers the modified file 370, or a copy of the modified file, to the server 230. Such a triggering event may include, but be not limited to, the user saving the file, the elapsing of a predetermined amount of time during which the file has been opened, or the re-initiation of a communication session between the device 210 and the server 230.

[0044] The file 370 is transferred to the server 230 on which is executing a synchronization application 380, which may include a mobile-agent runtime environment. Through user configuration, the synch application 380 monitors a set of user devices to which the file 370 should be transferred to effect file synchronization. In the illustrated embodiment, this set of user devices includes the user device 280. The synch application 380 polls the device 280 to determine whether the device 280 is in communication with the server 230. If the device 280 is in communication with the server 230, the synch application 380 transfers the file 370 to the device 280, whereupon the transfer client 320 resident on the device 280 replaces the previous version of the file 370, previously cached on the device 280, with the latest version of the file 370 modified on the user device 210. If the device 280 is not currently in communication with the server 230, the synch application 380 may store the file 370 in the storage 270 until such time as communication between the device 280 and server 230 is reestablished. As illustrated in Figure 3, a similar reverse-direction synchronization process may be performed by the synch application 380 and the transfer clients 310, 320 with regard to a file 315 modified on device 280 and synchronized to device 210.

[0045] In an embodiment, the user interfaces 350, 360 may include a list of the customer's documents and related metadata, as well as any one-to-one or one-to-many

relationships between the documents and metadata. An embodiment can always provide customers with an accurate "picture" of their document collection, regardless of whether their devices physically contain the documents. As alluded to earlier, a problem with distributed file systems and FTP is the latency between a file being put onto a file system and it showing up on a remote machine. To prevent this problem, an embodiment directory is decoupled from the movement of files. An embodiment's directory update system updates at a higher priority than the documents to be synchronized. This feature ensures that when a customer browses or searches through his set of documents, they appear even if they have not yet been cached locally on the user device. An indicator signifying a document's availability may be prominently displayed adjacent to the document's representation so that customers are aware of the document's availability.

[0046] An embodiment may include a stand-alone application that allows customers to find and manage documents associated with transfer clients 310, 320 by visualizing relationships between documents and their metadata. It allows customers to tag documents with any number of identifiers. Customers can relate both documents and tags with each other in any number of user-specified one-to-one and one-to-many relationships, and an embodiment provides a user interface to browse and search on these relationships. To mitigate the customers' learning curve, an embodiment can implement relationships common to contemporary file systems, including a folder hierarchy. In addition to this, an embodiment provides direct support for methods that the customer uses to organize documents by manifesting them as user interface idioms. This is unlike conventional document filing systems which require the customer to work within a strict folder metaphor for organization.

[0047] Some alternate methods that an embodiment supports for organizing documents include:

[0048] • Allow customers to organize their documents by application. Many times customers remember the application used to create a document instead of the document's name or its location in a hierarchy.

[0049] • Allow customers to organize their documents by most recent access. Customers are likely to access a document they've accessed in the near past. Usually, such documents are part of a task that the customer is actively working.

[0050] • Allow customers to organize their documents by project or subproject.

[0051] • Allow customers to organize their documents by people. Many times, especially in the context of a collaboration, a document is directly related to one or more people other than the customer.

[0052] • Allow the customer to organize their document by process stage. Documents may represent one or more stages of a process. Customers need a method for organizing documents by process stage, and a mechanism for moving the document through a set of predefined stages.

[0053] • Allow customers to organize their documents by any of the aforementioned methods concurrently. These organization methods are not mutually exclusive.

[0054] An embodiment presents an interface that allows a customer to locate one or more documents associated with the transfer clients 310, 320 and open such document into a separate software application. Since this interface is intended to be used from within the separate application, that application may need to know how to invoke such interface. Advantageously, this invocation behavior can be provided to the application using the application's plug-in API.

[0055] An embodiment presents an interface that allows a customer to synchronize a currently opened document according to processes described elsewhere herein. This interface can be invoked within an application and can be made available to the application in the manner described above in connection with the application's plug-in API.

[0056] Some files associated with the transfer clients 310, 320 are dependent on other files associated with the transfer clients 310, 320. For example, a desktop publishing document may include images that are stored in files separate from the main document. Previous file-synching solutions treat these files as separate. Because of this, for example, a document synchronized from the device 210 to the device 280 may be opened by the user of the device 280 before the image files have been fully transferred to the device 280. This causes the document to fail to open, or break, since the image files don't exist or are incomplete. An embodiment prevents this by: (1) always ensuring the file catalog (*e.g.*, the stand-alone application that allows customers to find and manage documents associated with transfer clients 310, 320, as discussed above herein) is synchronized before any file data is synchronized, and (2) pausing any file access by any program until the file contents have been fully synchronized. In such an embodiment, if a user attempts, using a software program, to open a file whose related files haven't yet finished transferring to the local (hard drive) cache, if that software attempts to open the related files, the software program is blocked by an embodiment until the requested files are downloaded and ready to access.

[0057] Other file sending and synchronizing software requires the user to upload their data to a storage device owned by the operator of the service. An embodiment treats storage as a participant in the synchronization process; this means that the user can choose the service or device where their files will be stored. The file transfer/synching is abstracted from the storage system allowing any storage to be used. An embodiment treats storage like any other synch target, such as a desktop computer, or a cell phone. As such, any device owned or otherwise controlled by the user and running a synch application, such as synch application 380, as provided in an embodiment of the invention can perform the storage and/or synching functions described elsewhere herein. That is, the user device 280 or user device 210, rather than the server 230, may perform such functions.

[0058] While a preferred embodiment of the invention has been illustrated and described, as noted above, many changes can be made without departing from the spirit

and scope of the invention. For example, as an alternative to the approach described with reference to Figure 3, wherein the transfer clients 310, 320 function to “push” modified or created files to the synch application 380, the synch application 380 may instead function to periodically “pull” or otherwise actively retrieve such files from the transfer clients 310, 320. Instead, the invention should be determined entirely by reference to the claims that follow.

WHAT IS CLAIMED IS:

1. A system comprising:

a server system comprising one or more processors programmed with computer program instructions that, when executed, cause the server system to:

receive, over a network, a copy of a first file from a first client device associated with a user, wherein the copy of the first file is automatically received from the first client device responsive to the user modifying a content of the first file stored on the first client device, the copy of the first file being an updated version of the first file that is generated from the user modifying the content of the first file;

receive, over a network, from the first client device, first metadata associated with the updated version of the first file that is generated from the user modifying the content of the first file, the first metadata being assigned a first priority greater than a second priority assigned to the copy of the first file; and

automatically transfer, based on the first priority being greater than the second priority, the first metadata over a network to a second client device associated with the user such that the first metadata is transferred to the second client device before the copy of the first file is transferred to the second client device,

wherein, before the copy of the first file is transferred to the second client device:

(i) the transfer of the first metadata to the second client device causes a file representation of the first file presented on a user interface of the second client device to be updated based on the first metadata, and

(ii) instead of the updated file representation of the first file representing a version of the first file currently stored on the second client device, the updated file representation represents the updated version of the

first file that is currently stored on the first client device and not currently stored on the second client device.

2. The system of claim 1, wherein at least one of the server system or the first client device comprises a priority assignment configuration to assign greater priority to metadata associated with files than priority assigned to the files such that at least one of the server system or the first client device assigns the first priority to the first metadata and the second priority to the copy of the first file based on the priority assignment configuration.

3. The system of claim 1, wherein, before the copy of the first file is transferred to the second client device, the transfer of the first metadata to the second client device causes a graphical availability indication of the updated version of the first file to be presented on the user interface of the second client device based on the first metadata

4. The system of claim 1, wherein the computer program instructions, when executed, cause the server system to:

receive a copy of a second file from the second client device associated with the user, wherein the copy of the second file is automatically received from the second client device responsive to the user modifying a content of the second file stored on the second client device, the copy of the second file being an updated version of the second file that is generated from the user modifying the content of the second file;

determine that the server system is in communication with the first client device associated with the user; and

automatically transfer the copy of the second file to the first client device associated with the user to replace an older version of the second file stored on the first client device, responsive to (i) determining that the server system is in communication with the first client device and (ii) receiving the copy of the second file from the second client device.

5. The system of claim 1, wherein the copy of the first file is automatically received from the first client device responsive to (i) a push request of the first client device and (ii) the user modifying the content of the first file stored on the first client device.

6. The system of claim 1, wherein the copy of the first file is automatically received from a first application at the first client device, and wherein the first application comprises a runtime environment for one or more mobile-agent objects.

7. The system of claim 6, wherein the first application is configured to create a first mobile object, and wherein the first mobile object is configured to create a proxy object at the server system.

8. The system of claim 7, wherein the first mobile object is configured to provide the copy of the first file to the proxy object, and wherein the proxy object is configured to store the copy of the first file on a memory device associated with the server system.

9. A method being implemented by a server system comprising one or more processors executing computer program instructions that, when executed, perform the method, the method comprising:

receiving, over a network, a copy of a first file from a first client device associated with a user, wherein the copy of the first file is automatically received from the first client device responsive to the user modifying a content of the first file stored on the first client device, the copy of the first file being an updated version of the first file that is generated from the user modifying the content of the first file;

receiving, over a network, from the first client device, first metadata associated with the updated version of the first file that is generated from the user modifying the content

of the first file, the first metadata being assigned a first priority greater than a second priority assigned to the copy of the first file; and

automatically transferring, based on the first priority being greater than the second priority, the first metadata over a network to a second client device associated with the user such that the first metadata is transferred to the second client device before the copy of the first file is transferred to the second client device,

wherein, before the copy of the first file is transferred to the second client device:

(i) the transfer of the first metadata to the second client device causes a file representation of the first file presented on a user interface of the second client device to be updated based on the first metadata, and

(ii) the updated file representation represents the updated version of the first file that is currently stored on the first client device and not currently stored on the second client device.

10. The method of claim 9, wherein at least one of the server system or the first client device comprises a priority assignment configuration to assign greater priority to metadata associated with files than priority assigned to the files such that at least one of the server system or the first client device assigns the first priority to the first metadata and the second priority to the copy of the first file based on the priority assignment configuration.

11. The method of claim 9, wherein, before the copy of the first file is transferred to the second client device, the transfer of the first metadata to the second client device causes a graphical availability indication of the updated version of the first file to be presented on the user interface of the second client device based on the first metadata

12. The method of claim 9, further comprising:

receiving a copy of a second file from the second client device associated with the user, wherein the copy of the second file is automatically received from the second client device responsive to the user modifying a content of the second file stored on the second client device, the copy of the second file being an updated version of the second file that is generated from the user modifying the content of the second file;

determining that the server system is in communication with the first client device associated with the user; and

automatically transferring the copy of the second file to the first client device associated with the user to replace an older version of the second file stored on the first client device, responsive to (i) determining that the server system is in communication with the first client device and (ii) receiving the copy of the second file from the second client device.

13. The method of claim 9, wherein the copy of the first file is automatically received from the first client device responsive to (i) a push request of the first client device and (ii) the user modifying the content of the first file stored on the first client device.

14. The method of claim 9, wherein the copy of the first file is automatically received from a first application at the first client device, wherein the first application comprises a runtime environment for one or more mobile-agent objects, wherein the first application is configured to create a first mobile object, wherein the first mobile object is configured to create a proxy object at the server system, wherein the first mobile object is configured to provide the copy of the first file to the proxy object, and wherein the proxy object is configured to store the copy of the first file on a memory device associated with the server system.

15. One or more non-transitory machine-readable media storing instructions that, when executed by one or more processors of a server system, cause operations comprising:

receiving, over a network, a copy of a first file from a first client device associated with a user, wherein the copy of the first file is automatically received from the first client device responsive to the user modifying a content of the first file stored on the first client device, the copy of the first file being an updated version of the first file that is generated from the user modifying the content of the first file;

receiving, over a network, from the first client device, first metadata associated with the updated version of the first file that is generated from the user modifying the content of the first file, the first metadata being assigned a first priority greater than a second priority assigned to the copy of the first file; and

automatically transferring, based on the first priority being greater than the second priority, the first metadata over a network to a second client device associated with the user such that the first metadata is transferred to the second client device before the copy of the first file is transferred to the second client device,

wherein, before the copy of the first file is transferred to the second client device:

(i) the transfer of the first metadata to the second client device causes a file representation of the first file presented on a user interface of the second client device to be updated based on the first metadata, and

(ii) the updated file representation represents the updated version of the first file that is currently stored on the first client device and not currently stored on the second client device.

16. The media of claim 15, wherein at least one of the server system or the first client device comprises a priority assignment configuration to assign greater priority to metadata associated with files than priority assigned to the files such that at least one of the server

system or the first client device assigns the first priority to the first metadata and the second priority to the copy of the first file based on the priority assignment configuration.

17. The media of claim 15, wherein, before the copy of the first file is transferred to the second client device, the transfer of the first metadata to the second client device causes an availability indication of the updated version of the first file to be presented on the user interface of the second client device based on the first metadata

18. The media of claim 15, the operations further comprising:

receiving a copy of a second file from the second client device associated with the user, wherein the copy of the second file is automatically received from the second client device responsive to the user modifying a content of the second file stored on the second client device, the copy of the second file being an updated version of the second file that is generated from the user modifying the content of the second file;

determining that the server system is in communication with the first client device associated with the user; and

automatically transferring the copy of the second file to the first client device associated with the user to replace an older version of the second file stored on the first client device, responsive to (i) determining that the server system is in communication with the first client device and (ii) receiving the copy of the second file from the second client device.

19. The media of claim 15, wherein the copy of the first file is automatically received from the first client device responsive to (i) a push request of the first client device and (ii) the user modifying the content of the first file stored on the first client device.

20. The media of claim 15, wherein the copy of the first file is automatically received from a first application at the first client device, wherein the first application comprises a runtime environment for one or more mobile-agent objects, wherein the first application is configured to create a first mobile object, wherein the first mobile object is configured to create a proxy object at the server system, wherein the first mobile object is configured to provide the copy of the first file to the proxy object, and wherein the proxy object is configured to store the copy of the first file on a memory device associated with the server system.

ABSTRACT OF THE DISCLOSURE

In some embodiments, responsive to a user modifying a content of the file at a first client device (associated with the user), a server system may automatically receive a copy of the file from the first client device, where the file copy may be an updated version of the file that is generated from the user modifying the content of the file. After receiving metadata associated with the updated version of the file from the first client device, the server system may automatically transfer the metadata to a second client device associated with the user such that, before the file copy is transferred to the second client device, the transfer of the metadata to the second client device causes a file representation of the file presented on a user interface of the second client device to be updated based on the metadata.

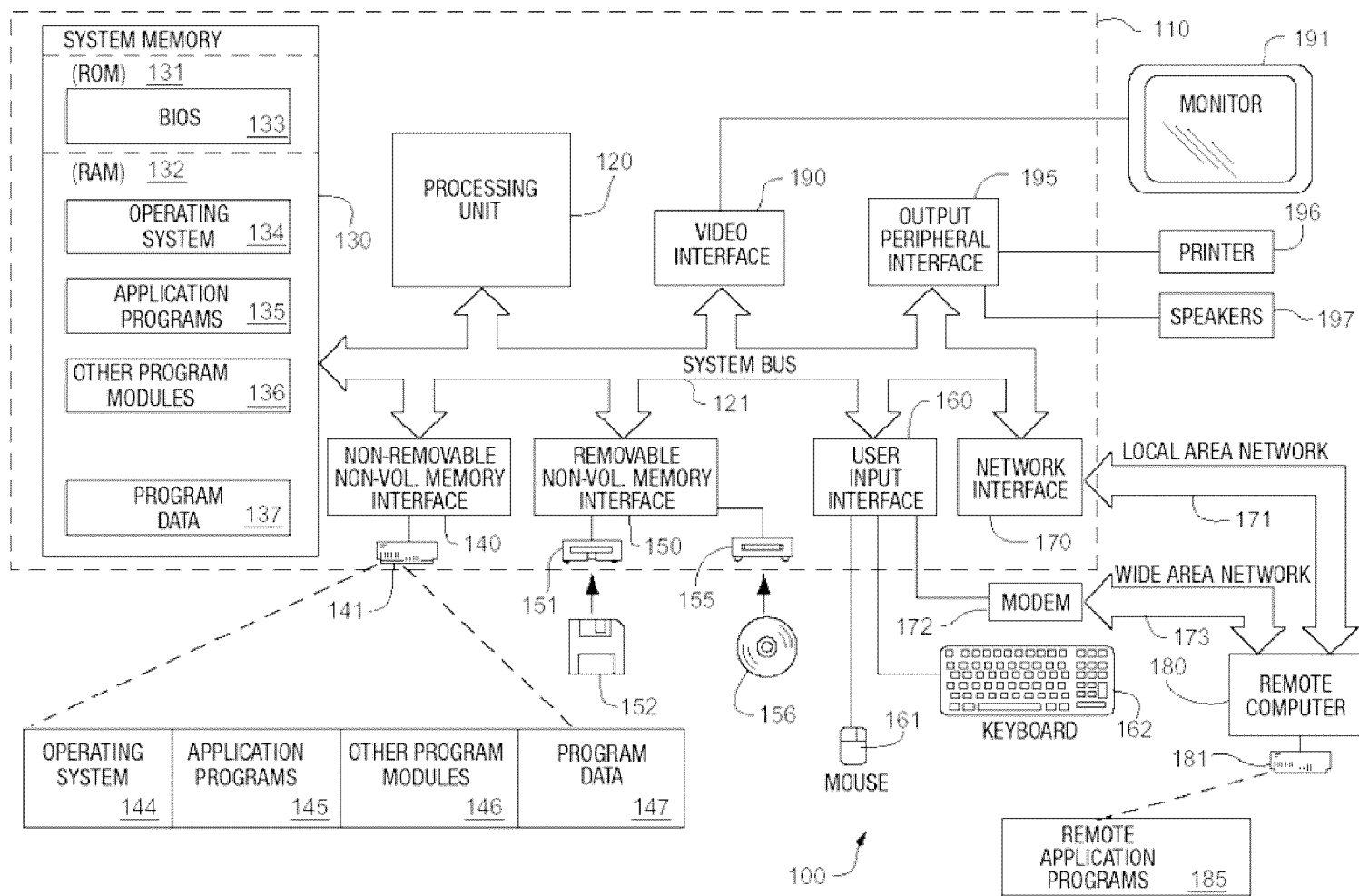


FIG. 1

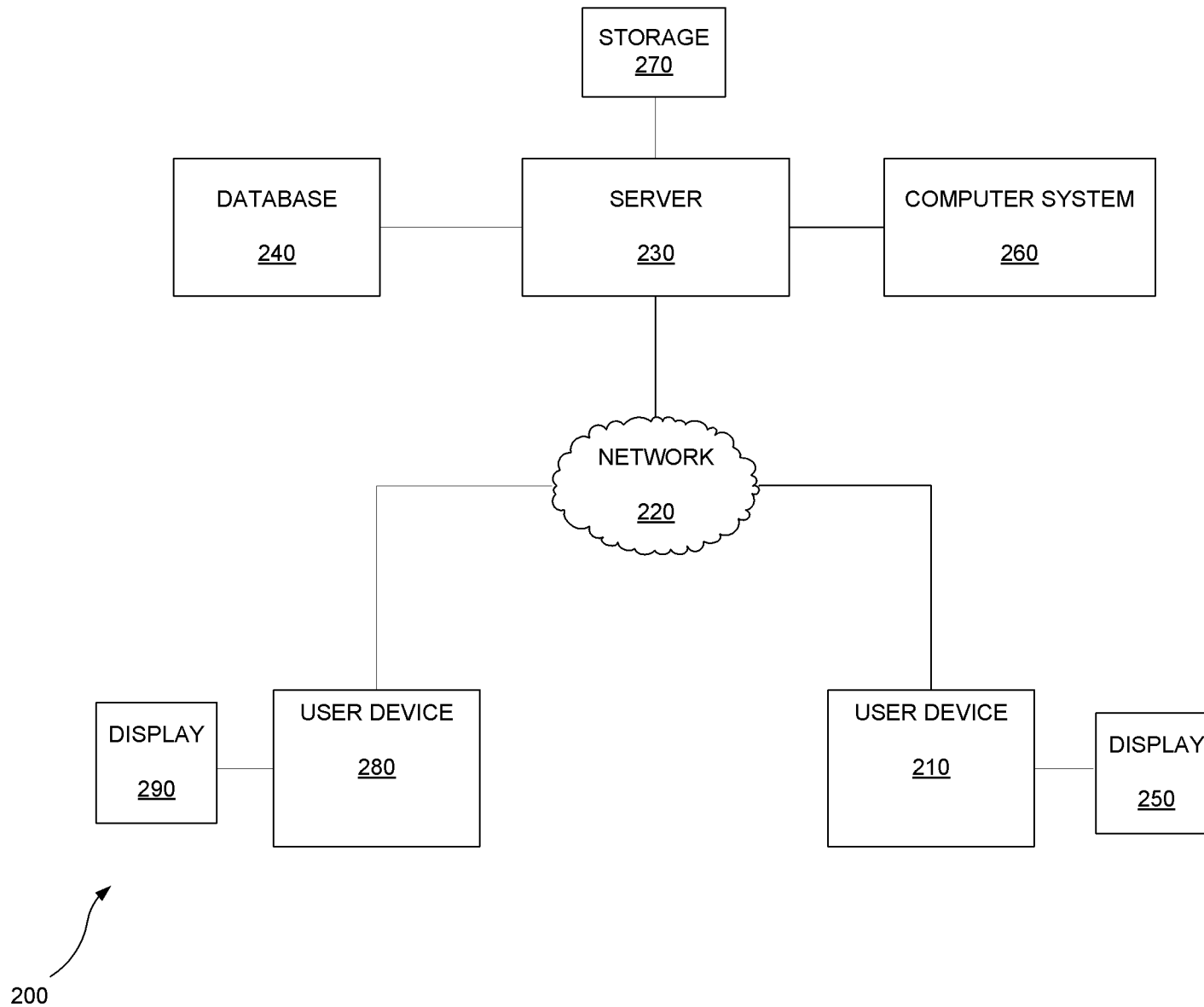


FIG. 2

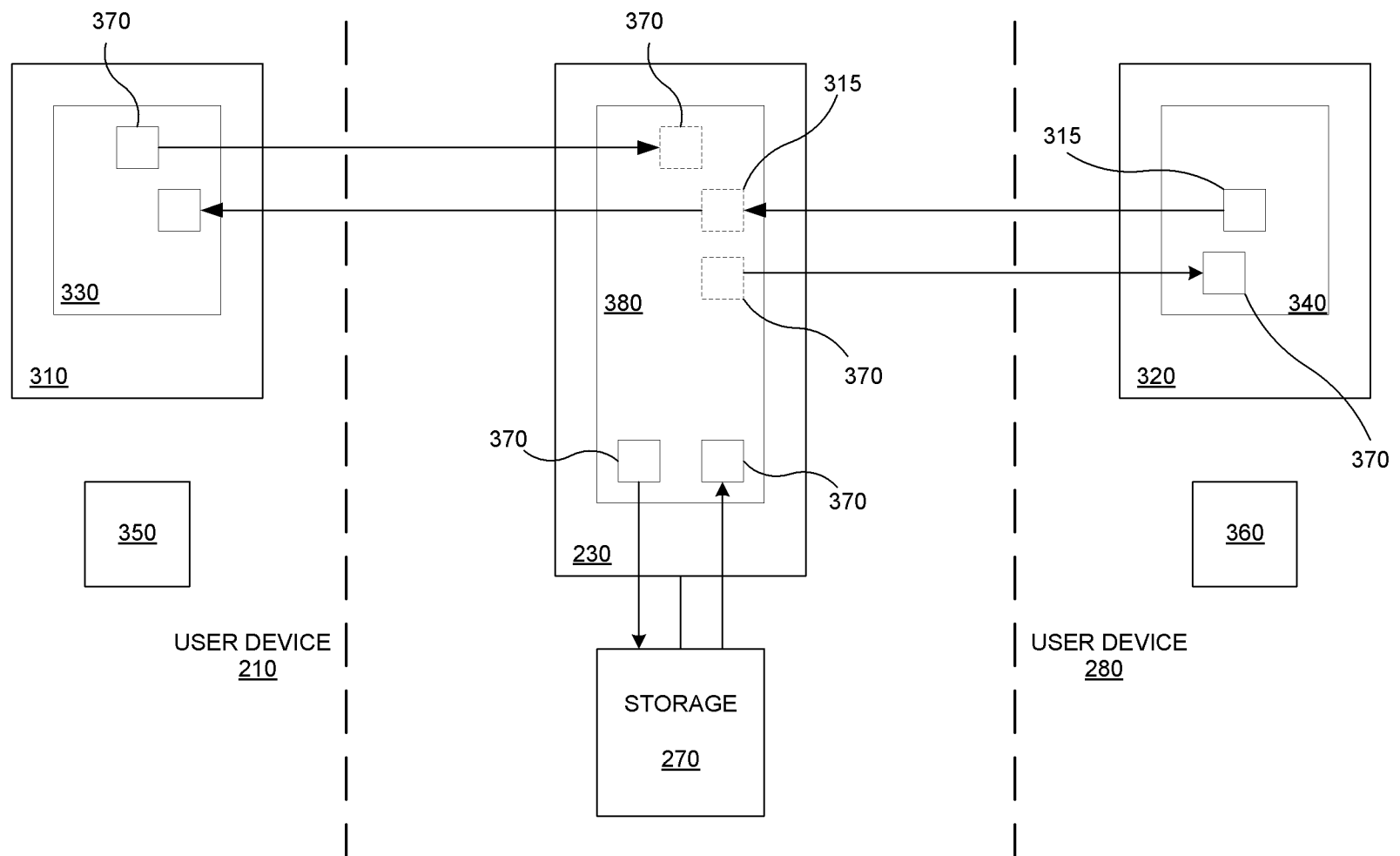


FIG. 3

Electronic Patent Application Fee Transmittal

Application Number:				
Filing Date:				
Title of Invention:	PRE-FILE-TRANSFER UPDATE BASED ON PRIORITIZED METADATA			
First Named Inventor/Applicant Name:	Michael R. MANZANO			
Filer:	Ngai Bing Zhang/Maggie Barham			
Attorney Docket Number:	023027-0509067			
Filed as Small Entity				
Filing Fees for Track I Prioritized Examination - Nonprovisional Application under 35 USC 111(a)				
Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Basic Filing:				
UTILITY FILING FEE (ELECTRONIC FILING)	4011	1	75	75
UTILITY SEARCH FEE	2111	1	330	330
UTILITY EXAMINATION FEE	2311	1	380	380
REQUEST FOR PRIORITIZED EXAMINATION	2817	1	2000	2000
Pages:				
Claims:				
Miscellaneous-Filing:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
PUBL. FEE- EARLY, VOLUNTARY, OR NORMAL	1504	1	0	0
PROCESSING FEE, EXCEPT PROV. APPLS.	2830	1	70	70
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				
Miscellaneous:				
Total in USD (\$)				2855

Electronic Acknowledgement Receipt

EFS ID:	38379554
Application Number:	16750399
International Application Number:	
Confirmation Number:	9316
Title of Invention:	PRE-FILE-TRANSFER UPDATE BASED ON PRIORITIZED METADATA
First Named Inventor/Applicant Name:	Michael R. MANZANO
Customer Number:	909
Filer:	Ngai Bing Zhang/Maggie Barham
Filer Authorized By:	Ngai Bing Zhang
Attorney Docket Number:	023027-0509067
Receipt Date:	23-JAN-2020
Filing Date:	
Time Stamp:	14:17:29
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	DA
Payment was successfully received in RAM	\$2855
RAM confirmation Number	E20201ME17402125
Deposit Account	
Authorized User	

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

File Listing:					
Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	TrackOne Request	023027-0509067_Track1-Request.pdf	124638	no	2
			008c300b346e1760d70e61a94326cb636d6824f5		
Warnings:					
Information:					
2	Application Data Sheet	023027-0509067_ADS.pdf	1256413	no	9
			87615639a73480283ddaba6569575a821072fb3f		
Warnings:					
Information:					
3	Transmittal of New Application	023027-0509067_Continuation_Appln_Transmittal.pdf	199047	no	1
			1bf4f65a8f9962ffe21e5b8d9276b1e7ca6cb8b6		
Warnings:					
Information:					
4	Power of Attorney	023027-0509067_373Statement_POA.pdf	341802	no	6
			3397b5672ddc771cb101fa247a29dfc6a507dec2		
Warnings:					
Information:					
5	Oath or Declaration filed	023027-0509067_Dec_Substitute_Statement.pdf	133771	no	2
			3229092b55fa55c27b65f53405b07fa868b4f3d0		
Warnings:					
Information:					
6	Transmittal Letter	023027-0509067_IDS_Transmittal.pdf	93072	no	1
			e235752b97539e4832745612c3b40e6f28acd7fc		
Warnings:					
Information:					

7	Information Disclosure Statement (IDS) Form (SB08)	023027-0509067_PTO-1449.pdf	692300	no	10
			66f93c31233c546d6f41763a75ba58239ab0f9ee		
Warnings:					
Information:					
This is not an USPTO supplied IDS fillable form					
8	First Action Interview - Enrollment Request	023027-0509067_Request-First-Action-Interview.pdf	206159	no	1
			d1e94a8da110d0e22858153bf8ad5ca3a57b10d5		
Warnings:					
Information:					
9		023027-0509067_Specification_Drawings.pdf	342175	yes	30
			4bc5cf27f9fbb7cc6a3054c10ebfa20dc811be3f		
	Multipart Description/PDF files in .zip description				
	Document Description		Start	End	
	Specification		1	18	
	Claims		19	26	
	Abstract		27	27	
	Drawings-only black and white line drawings		28	30	
Warnings:					
Information:					
10	Fee Worksheet (SB06)	fee-info.pdf	40121	no	2
			266d2594490d15bf2c7aae3a5fe404bb598e41e6		
Warnings:					
Information:					
Total Files Size (in bytes):			3429498		

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.

**CERTIFICATION AND REQUEST FOR PRIORITIZED EXAMINATION
UNDER 37 CFR 1.102(e) (Page 1 of 1)**

First Named Inventor:	Michael R. MANZANO	Nonprovisional Application Number (if known):	New
Title of Invention:	PRE-FILE-TRANSFER UPDATE BASED ON PRIORITIZED METADATA		

APPLICANT HEREBY CERTIFIES THE FOLLOWING AND REQUESTS PRIORITIZED EXAMINATION FOR THE ABOVE-IDENTIFIED APPLICATION.

1. The processing fee set forth in 37 CFR 1.17(i)(1) and the prioritized examination fee set forth in 37 CFR 1.17(c) have been filed with the request. The publication fee requirement is met because that fee, set forth in 37 CFR 1.18(d), is currently \$0. The basic filing fee, search fee, and examination fee are filed with the request or have been already been paid. I understand that any required excess claims fees or application size fee must be paid for the application.
2. I understand that the application may not contain, or be amended to contain, more than four independent claims, more than thirty total claims, or any multiple dependent claims, and that any request for an extension of time will cause an outstanding Track I request to be dismissed.
3. The applicable box is checked below:

I. ☒ Original Application (Track One) - Prioritized Examination under § 1.102(e)(1)

- i. (a) The application is an original nonprovisional utility application filed under 35 U.S.C. 111(a). This certification and request is being filed with the utility application via EFS-Web.
---OR---
(b) The application is an original nonprovisional plant application filed under 35 U.S.C. 111(a). This certification and request is being filed with the plant application in paper.
- ii. An executed inventor's oath or declaration under 37 CFR 1.63 or 37 CFR 1.64 for each inventor, or the application data sheet meeting the conditions specified in 37 CFR 1.53(f)(3)(i) is filed with the application.

II. ☐ Request for Continued Examination - Prioritized Examination under § 1.102(e)(2)

- i. A request for continued examination has been filed with, or prior to, this form.
- ii. If the application is a utility application, this certification and request is being filed via EFS-Web.
- iii. The application is an original nonprovisional utility application filed under 35 U.S.C. 111(a), or is a national stage entry under 35 U.S.C. 371.
- iv. This certification and request is being filed prior to the mailing of a first Office action responsive to the request for continued examination.
- v. No prior request for continued examination has been granted prioritized examination status under 37 CFR 1.102(e)(2).

Signature /Ngai B. Zhang/	Date January 23, 2020
Name (Print/Typed) Ngai B. Zhang	Practitioner Registration Number 65,473

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.*

☐ *Total of _____ forms are submitted.

Privacy Act Statement

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

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

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

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	023027-0509067
		Application Number	
Title of Invention	PRE-FILE-TRANSFER UPDATE BASED ON PRIORITIZED METADATA		
<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. 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	R.	MANZANO			
Residence Information (Select One) • US Residency Non US Residency Active US Military Service						
City	Seattle	State/Province	WA	Country of Residence	US	
Mailing Address of Inventor:						
Address 1	5702 35th Avenue NE					
Address 2						
City	Seattle	State/Province	WA			
Postal Code	98105	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).			
<input type="checkbox"/> An Address is being provided for the correspondence Information of this application.			
Customer Number	00909		
Email Address	docket_ip@pillsburylaw.com	Add Email	Remove Email

Application Information:

Title of the Invention	PRE-FILE-TRANSFER UPDATE BASED ON PRIORITIZED METADATA		
Attorney Docket Number	023027-0509067	Small Entity Status Claimed	<input checked="" type="checkbox"/>
Application Type	Nonprovisional		
Subject Matter	Utility		
Total Number of Drawing Sheets (if any)	3	Suggested Figure for Publication (if any)	1

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	023027-0509067
		Application Number	
Title of Invention	PRE-FILE-TRANSFER UPDATE BASED ON PRIORITIZED METADATA		

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	00909		

Domestic Benefit/National Stage Information:

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

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

Prior Application Status	Pending	Remove	
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
	Continuation of	16/361641	2019-03-22

Application Data Sheet 37 CFR 1.76		Attorney Docket Number		023027-0509067	
		Application Number			
Title of Invention		PRE-FILE-TRANSFER UPDATE BASED ON PRIORITIZED METADATA			

Prior Application Status		Patented		Remove	
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)	Patent Number	Issue Date (YYYY-MM-DD)
16/361641	Continuation of	16/017348	2018-06-25	10289607	2019-05-14
Prior Application Status		Patented		Remove	
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)	Patent Number	Issue Date (YYYY-MM-DD)
16/017348	Continuation of	14/860289	2015-09-21	10067942	2018-09-04
Prior Application Status		Patented		Remove	
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)	Patent Number	Issue Date (YYYY-MM-DD)
14/860289	Continuation of	12/267852	2008-11-10	9143561	2015-09-22
Prior Application Status		Expired		Remove	
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)		
12/267852	Claims benefit of provisional	60/986896	2007-11-09		
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 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)	Access Code ⁱ (if applicable)	Remove
Additional Foreign Priority Data may be generated within this form by selecting the Add button.					Add

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

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	023027-0509067
		Application Number	
Title of Invention	PRE-FILE-TRANSFER UPDATE BASED ON PRIORITIZED METADATA		

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

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

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	023027-0509067
		Application Number	
Title of Invention	PRE-FILE-TRANSFER UPDATE BASED ON PRIORITIZED METADATA		

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	023027-0509067
		Application Number	
Title of Invention	PRE-FILE-TRANSFER UPDATE BASED ON PRIORITIZED METADATA		

Applicant Information:

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

Applicant	1	Remove
<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> <p style="text-align: right;">Clear</p>		
<input checked="" type="radio"/> 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:		
<div style="border: 1px solid black; height: 20px; width: 100%;"></div>		
Name of the Deceased or Legally Incapacitated Inventor: <div style="border: 1px solid black; width: 450px; height: 20px;"></div>		
If the Applicant is an Organization check here. <input checked="" type="checkbox"/>		
Organization Name	TOPIA TECHNOLOGY, INC.	
Mailing Address Information For Applicant:		
Address 1	1927 Dock Street	
Address 2		
City	Tacoma	State/Province
Country	US	Postal Code
Phone Number		Fax Number
Email Address		
Additional Applicant Data may be generated within this form by selecting the Add button. Add		

Assignee Information including Non-Applicant Assignee Information:

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

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	023027-0509067
		Application Number	
Title of Invention	PRE-FILE-TRANSFER UPDATE BASED ON PRIORITIZED METADATA		

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.				
				<input type="button" value="Remove"/>
If the Assignee or Non-Applicant Assignee is an Organization check here.				<input type="checkbox"/>
Prefix	Given Name	Middle Name	Family Name	Suffix
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Mailing Address Information For Assignee including Non-Applicant Assignee:				
Address 1		<input type="text"/>		
Address 2		<input type="text"/>		
City	<input type="text"/>	State/Province	<input type="text"/>	
Country ⁱ	<input type="text"/>	Postal Code	<input type="text"/>	
Phone Number	<input type="text"/>	Fax Number	<input type="text"/>	
Email Address	<input type="text"/>			
Additional Assignee or Non-Applicant Assignee Data may be generated within this form by selecting the Add button.				<input type="button" value="Add"/>

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	/Ngai B. Zhang/		Date (YYYY-MM-DD)	2020-01-23
First Name	Ngai	Last Name	Zhang	Registration Number
				65473
Additional Signature may be generated within this form by selecting the Add button.				<input type="button" value="Add"/>

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	023027-0509067
		Application Number	
Title of Invention	PRE-FILE-TRANSFER UPDATE BASED ON PRIORITIZED METADATA		

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.

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

STATEMENT UNDER 37 CFR 3.73(c)Applicant/Patent Owner: TOPIA TECHNOLOGY, INC.Application No./Patent No.: New Filed/Issue Date: January 23, 2020Titled: PRE-FILE-TRANSFER UPDATE BASED ON PRIORITIZED METADATATOPIA TECHNOLOGY, INC., a corporation

(Name of Assignee)

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

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

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

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

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

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

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

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

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

[Page 1 of 2]

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

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

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STATEMENT UNDER 37 CFR 3.73(c)

3. From: _____ To: _____

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

4. From: _____ To: _____

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

5. From: _____ To: _____

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

6. From: _____ To: _____

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

☐ Additional documents in the chain of title are listed on a supplemental sheet(s).

☒ As required by 37 CFR 3.73(c)(1)(i), the documentary evidence of the chain of title from the original owner to the assignee was, or concurrently is being, submitted for recordation pursuant to 37 CFR 3.11.

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

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

/Ngai B. Zhang/

January 23, 2020

Signature

Date

Ngai B. Zhang

65,473

Printed or Typed Name

Title or Registration Number

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Michael R. Manzano

Attorney Docket No. TPTC-1-1026

Serial No. 12/267,852

Group Art Unit: 2876

Filing Date: November 10, 2008

Examiner: Unknown.

Title: ARCHITECTURE FOR MANAGEMENT OF DIGITAL FILES ACROSS
DISTRIBUTED NETWORK

ASSIGNMENT

WHEREAS, I, Michael R. Manzano, residing at 819 Virginia Avenue, #1706, Seattle, WA 98101, am the inventor named in the above-identified United States patent application;

AND, WHEREAS, Topia Technology, a Washington corporation, having a principal address at 1119 Pacific Avenue, Suite 1600, Tacoma, WA 98402 (hereinafter referred to as ASSIGNEE), is desirous of acquiring the entire right, title, and interest in and to the patent application and related inventions;

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, and intending to be legally bound, I hereby assign and transfer to ASSIGNEE the entire right, title, and interest in and to the patent application and related inventions, including all improvements, variations, derivations and inventive subject matter directly or indirectly related to the patent application and inventions, and all provisional or nonprovisional patent applications or issued patents that have been or may be granted thereon, including without limitation all reissues, divisions, continuations, continuations-in-part, and extensions of the patent applications or patents, or any other form of protection for the inventions related to the patent application, in the United States and foreign countries; all rights of action arising from the inventions and all applications and patents on the inventions; all claims for damages by reason of past and future infringement of the inventions and all applications and

25315
CUSTOMER NUMBER

- 1 of 3 -

TPTC-1-1026ASGN

BLACK LOWE & GRAHAM ^{PLLC}

701 Fifth Avenue, Suite 4800

Seattle, Washington 98104
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206.381.3300 F: 206.381.3301

Page 254

patents on the inventions, and the right to sue and collect damages for such infringement; all of the foregoing assigned rights to be held and enjoyed by the ASSIGNEE for its own use and benefit and for its successors and assigns as the same would have been held by me had this assignment not been made.

I do hereby further agree and promise to execute all instruments and render all such assistance as ASSIGNEE may request in order to: make and prosecute any and all applications on the inventions, maintain and enforce any and all patents on the inventions, and confirm in ASSIGNEE legal title to the inventions and all applications and patents on the inventions in the United States and foreign countries, all without charge to ASSIGNEE but at no expense to me. In the event that ASSIGNEE is unable for any reason, after reasonable effort, to secure my signature on any document needed in connection with the actions specified in this paragraph, or to otherwise perfect in ASSIGNEE the entire right, title, and interest in and to the patent application and related inventions, I hereby irrevocably designate and appoint the ASSIGNEE and its duly authorized officers and agents as my agent and attorney-in-fact, to act for and in my behalf to execute, verify and file any such documents and to do all other lawfully permitted acts to further the purposes of this assignment with the same legal force and effect as if executed by me. I hereby waive and quitclaim to the ASSIGNEE any and all claims, of any nature whatsoever, which I now or may hereafter have for infringement of any proprietary rights assigned to the ASSIGNEE.

If any provision of this assignment is held by any court to be unenforceable, such provision shall be interpreted to accomplish the objectives of the original provision to the fullest extent allowed by law, and the remainder of this assignment shall remain in full force and effect.

EXECUTED at Tacoma (city), WA (state), on Jan 23, 2009

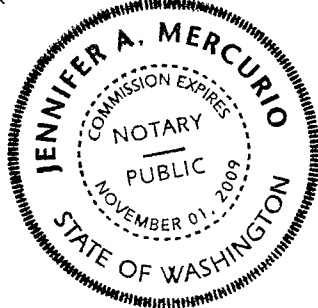

Michael R. Manzano

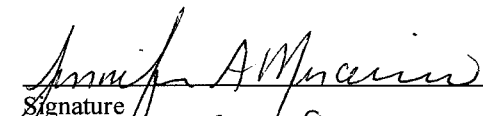
STATE OF WASHINGTON)
) ss.
COUNTY OF -)

I certify that I know or have satisfactory evidence that **Michael R. Manzano** is the person who appeared before me and signed this instrument and acknowledged such signature to be a voluntary act for the purposes mentioned in the instrument.

Dated: 1-23-09

(Seal or stamp)




Signature

Printed Name: Jennifer A. Mercurio


Notary Public

My appointment expires 11-1-09

25315
CUSTOMER NUMBER

- 3 of 3 -
TPTC-1-1026ASGN

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701 Fifth Avenue, Suite 4800
Seattle, Washington 98104
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Page 256

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

POWER OF ATTORNEY TO PROSECUTE APPLICATIONS BEFORE THE USPTO

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

I hereby appoint:



Practitioners associated with Customer Number:

00909

OR



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

Name	Registration Number

Name	Registration Number

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

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



The address associated with Customer Number:

00909

OR

<input type="checkbox"/> Firm or Individual Name			
Address			
City	State	Zip	
Country			
Telephone	Email		

Assignee Name and Address: TOPIA TECHNOLOGY, INC.
1119 Pacific Avenue, Suite 200
Tacoma, WA 98402

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

SIGNATURE of Assignee of Record

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

Signature	<i>Janine Terrano</i>	Date	11/03/15
Name	Janine Terrano	Telephone	
Title	President, CEO		

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

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