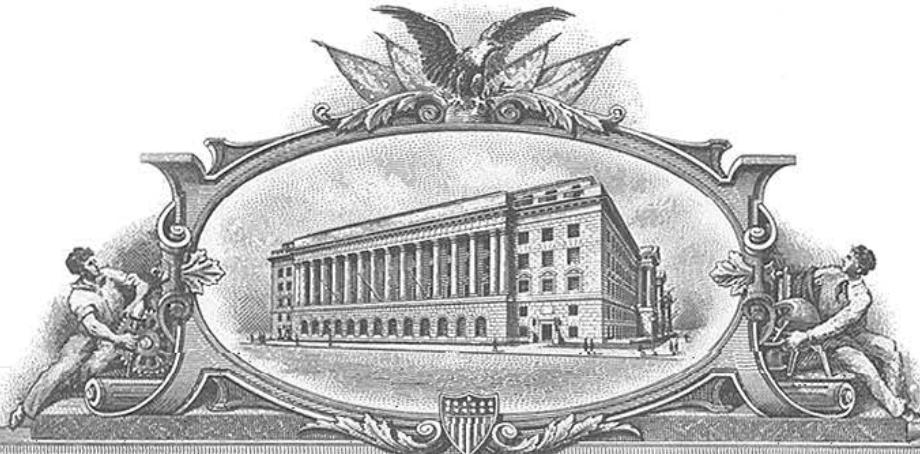


8238849



THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

UNITED STATES DEPARTMENT OF COMMERCE

United States Patent and Trademark Office

April 18, 2022

THIS IS TO CERTIFY THAT ANNEXED IS A TRUE COPY FROM THE RECORDS OF THIS OFFICE OF THE FILE WRAPPER AND CONTENTS OF:

APPLICATION NUMBER: 16/750,435

FILING DATE: January 23, 2020

PATENT NUMBER: 10754823

ISSUE DATE: August 25, 2020



Certified by

Performing the Functions and Duties of the
Under Secretary of Commerce
for Intellectual Property
and Director of the United States
Patent and Trademark Office

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**

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

APPLICATION ELEMENTS

See MPEP chapter 600 concerning utility patent application contents.

1. Fee Transmittal Form (PTO/SB/17 or equivalent)
2. Applicant asserts small entity status. See 37 CFR 1.27
3. Applicant certifies micro entity status. See 37 CFR 1.29. Applicant must attach form PTO/SB/15A or B or equivalent.
4. Specification [Total Pages 27] Both the claims and abstract must start on a new page. (See MPEP § 608.01(a) for information on the preferred arrangement)
5. Drawing(s) (35 U.S.C. 113) [Total Sheets 3]
6. Inventor's Oath or Declaration [Total Pages 2] (including substitute statements under 37 CFR 1.64 and assignments serving as an oath or declaration under 37 CFR 1.63(e))
 a. Newly executed (original or copy)
 b. A copy from a prior application (37 CFR 1.63(d))
7. Application Data Sheet * See note below. See 37 CFR 1.76 (PTO/AIA/14 or equivalent)
8. CD-ROM or CD-R in duplicate, large table, or Computer Program (Appendix)
 Landscape Table on CD
9. Nucleotide and/or Amino Acid Sequence Submission (if applicable, items a. -- c. are required)
 - a. Computer Readable Form (CRF)
 - b. Specification Sequence Listing on:
 - i. CD-ROM or CD-R (2 copies); or
 - ii. Paper
 - c. Statements verifying identity of above copies

Attorney Docket No.	023027-0509068
First Named Inventor	Michael R. MANZANO
Title	PRE-FILE-TRANSFER AVAILABILITY INDICATION BASED ON PRIORITIZED METADATA
Priority Mail Express® Label No.	

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

ACCOMPANYING APPLICATION PAPERS

10. Assignment Papers (cover sheet & document(s))
Name of Assignee _____
11. 37 CFR 3.73(c) Statement (when there is an assignee) Power of Attorney
12. English Translation Document (if applicable)
13. Information Disclosure Statement (PTO/SB/08 or PTO-1449)
 Copies of citations attached
14. Preliminary Amendment
15. Return Receipt Postcard (MPEP § 503) (Should be specifically itemized)
16. Certified Copy of Priority Document(s) (If foreign priority is claimed)
17. Nonpublication Request Under 35 U.S.C. 122(b)(2)(B)(i). Applicant must attach form PTO/SB/35 or equivalent.
18. Other: Track 1 Request
Request for First Action Interview

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

19. CORRESPONDENCE ADDRESS

The address associated with Customer Number: 00909 OR 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.

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	
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This statement is directed to:

The attached application,

OR

United States application or PCT international application number 14/860,289 filed on September 21, 2015

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	NV	Country
Henderson	NV	USA

Mailing Address (except for a deceased or legally incapacitated inventor):

1552 Livingston Drive

City	NV	Zip	Country
Henderson	NV	89012	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:

- Legal Representative (for deceased or legally incapacitated inventor only),
- Assignee,
- Person to whom the inventor is under an obligation to assign,
- Person who otherwise shows a sufficient proprietary interest in the matter (petition under 37 CFR 1.46 is required), or
- 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.

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

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:

Applicant Name: Topia Technology, Inc.
--

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 AVAILABILITY INDICATION 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	0509068	

**INFORMATION DISCLOSURE STATEMENT
BY APPLICANT**

Date: January 23, 2020

Page **1** of **10**

Inventor(s): Michael R. MANZANO

Appln. No.: New

Filing Date: January 23, 2020

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	
					Enclosed	No	Enclose	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.

FORM PTO-1449 (modified)
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Patent and Trademark Office

Atty. Dkt. No.	M#	
023027	0509068	

**INFORMATION DISCLOSURE STATEMENT
BY APPLICANT**

Date: January 23, 2020

Page **2** of **10**

Inventor(s): Michael R. MANZANO

Appln. No.: New

Filing Date: January 23, 2020

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.			
YR	7,269,433	09/2007	VARGAS et al.			
ZR	7,290,244	10/2007	PECK et al.			
AAF	7,340,534	03/2008	CAMERON et al.			
BBF	7,398,327	07/2008	LEE			
CCP	7,415,615	08/2008	SKYGEBJER			
DDP	7,457,631	11/2008	YACH et al.			
EEF	7,467,353	12/2008	KURLANDER et al.			
FFR	7,483,925	01/2009	KOSKIMIES et al.			
GGI	7,526,575	04/2009	RABBERS et al.			
HHR	7,574,711	08/2009	ZONDERVAN et al.			
IIR	7,584,186	09/2009	CHEN et al.			

FOREIGN PATENT DOCUMENTS

	Document Number	Date MM/YYYY	Country	Inventor Name	English Abstract		Translation Readily Available	
					Enclosed	No	Enclose	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.

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Patent and Trademark Office

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023027	0509068	

**INFORMATION DISCLOSURE STATEMENT
BY APPLICANT**

Date: January 23, 2020

Page **3** of **10**

Inventor(s): Michael R. MANZANO

Appln. No.: New

Filing Date: January 23, 2020

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)
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.			

FOREIGN PATENT DOCUMENTS

Document Number	Date MM/YYYY	Country	Inventor Name	English Abstract		Translation Readily Available	
				Enclosed	No	Enclose	No
DD							

OTHER (Including in this order Author, Title, Periodical Name, Date, Pertinent Pages, etc.)

EEE					
FFF					
GG					
HH					

Examiner _____ Date Considered: _____

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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

Page **4** of **10**

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)
IIIR	2003/0038842	02/2003	PECK et al.			
JJJI	2003/0125057	07/2003	PESOLA			
KKI	2003/0135565	07/2003	ESTRADA			
LLL	2004/0049345	03/2004	MCDONOUGH et al.			
MM	2005/0097225	05/2005	GLATT et al.			
NNI	2005/0220080	10/2005	RONKAINEN et al.			
OO	2006/0058907	03/2006	SUDERMAN			
PPF	2006/0189348	08/2006	MONTULLI et al.			
QQ	2007/0014314	01/2007	O'NEIL			
RRF	2007/0191057	08/2007	KAMADA			
SSS	2007/0238440	10/2007	SENGUPTA et al.			
TTT	2008/0005280	01/2008	ADAMS			
UUU	2008/0086494	04/2008	HELLER et al.			
VVV	2008/0168526	07/2008	ROBBIN et al.			
WW	2008/0288578	11/2008	SILFVERBERG			
XX	2009/0063711	03/2009	FINKELESTEIN			

FOREIGN PATENT DOCUMENTS

Document Number	Date MM/YYYY	Country	Inventor Name	English Abstract		Translation Readily Available	
				Enclosed	No	Enclose	No
YY							

OTHER (Including in this order Author, Title, Periodical Name, Date, Pertinent Pages, etc.)

ZZZ
AAA
BBC
CCO

Examiner

Date Considered:

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Atty. Dkt. No.	M#	
023027	0509068	

Inventor(s): Michael R. MANZANO

Appln. No.: New

Filing Date: January 23, 2020

Date: January 23, 2020 Page 5 of 10 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)
DDI						

FOREIGN PATENT DOCUMENTS					English Abstract	Translation Readily Available	
	Document Number	Date MM/YYYY	Country	Inventor Name			
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.			
IIIR	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.			
MM	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.			
OO	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:
----------	------------------

*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)
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Patent and Trademark Office

Atty. Dkt. No.	M#	
023027	0509068	

**INFORMATION DISCLOSURE STATEMENT
BY APPLICANT**

Inventor(s): Michael R. MANZANO

Appln. No.: New

Filing Date: January 23, 2020

Date: January 23, 2020

Page **6** of **10**

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)
PPF						
QQQ						
RRR						

FOREIGN PATENT DOCUMENTS

	Document Number	Date MM/YYYY	Country	Inventor Name	English Abstract		Translation Readily Available	
					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

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.

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

Atty. Dkt. No.	M#	
023027	0509068	

**INFORMATION DISCLOSURE STATEMENT
BY APPLICANT**

Date: January 23, 2020

Page **7** of **10**

Inventor(s): Michael R. MANZANO

Appln. No.: New

Filing Date: January 23, 2020

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)
DDI						

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	Document Number	Date MM/YYYY	Country	Inventor Name	English Abstract	Translation Readily Available
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.			
IIIIIP	FolderShare; Your Files Anywhere; < https://web.archive.org/web/20031001071631/http://foldershare.com:80/ >; October 1, 2003.			
JJJJ	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.			
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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.			
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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#	Client Ref.
023027	0509068	

**INFORMATION DISCLOSURE STATEMENT
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Inventor(s): Michael R. MANZANO

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Examiner: Unassigned Group Art Unit: Unassigned

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JJJ			
KKK			
LLL			
MM			

Examiner _____ Date Considered: _____

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Date: January 23, 2020		Page 9 of 10	Examiner: Unassigned	Group Art Unit: Unassigned

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					Enclosed	No	Enclose	No
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.			
JJJJ	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.			

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REQUEST FOR FIRST ACTION INTERVIEW (FULL PILOT PROGRAM)

Attorney Docket Number:	Application Number (if known):	Filing date:
023027-0509068	New	January 23, 2020
First Named Inventor:	Title: PRE-FILE-TRANSFER AVAILABILITY INDICATION BASED ON PRIORITY METADATA	
Michael R. MANZANO		

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

Applicant is agreeing not to request for a refund of the search fee and any excess claims fee paid in the application after the mailing or notification of the pre-interview communication prepared by the examiner.

4. Other attachments: _____

Signature /Ngai B. Zhang/	Date January 23, 2020
Name (Print/Typed) Ngai B. Zhang	Registration Number 65,473
<p>Note: This form must be signed in accordance with 37 CFR 1.33. See 37 CFR 1.4(d) for signature requirements and certifications. Submit multiple forms if more than one signature is required, see below*.</p>	
<input type="checkbox"/> *Total of _____ forms are submitted.	

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 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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

**PRE-FILE-TRANSFER AVAILABILITY INDICATION
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 graphical availability indication of the updated version of the file to be presented (e.g., proximate a file icon representing the file) at the second client device 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;
 - 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 graphical availability indication of the updated version of the first file to be presented at the second client device based on the first metadata, and
 - (ii) the graphical availability indication is presented proximate a file icon representing the first file on a user interface of the second client device, and

- wherein the graphical availability indication indicates that the updated version of the first file generated from the user modifying the content of the first file is available to be downloaded from the server system to 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 file representation of the first file presented on the user interface of the second client device to be updated 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 graphical availability indication of the updated version of the first file to be presented at the second client device based on the first metadata, and

(ii) the graphical availability indication is proximate a graphical file representation of the first file on a user interface of the second client device, and

wherein the graphical availability indication indicates that the updated version of the first file generated from the user modifying the content of the first file is available to be downloaded from the server system to 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 file representation of the first file presented on the user interface of the second client device to be updated 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 an availability indication of the updated version of the first file to be presented at the second client device based on the first metadata, and

(ii) the availability indication is proximate a graphical file representation of the first file on a user interface of the second client device, and wherein the availability indication indicates that the updated version of the first file generated from the user modifying the content of the first file is available to be downloaded from the server system to 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 a file representation of the first file presented on the user interface of the second client device to be updated 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.

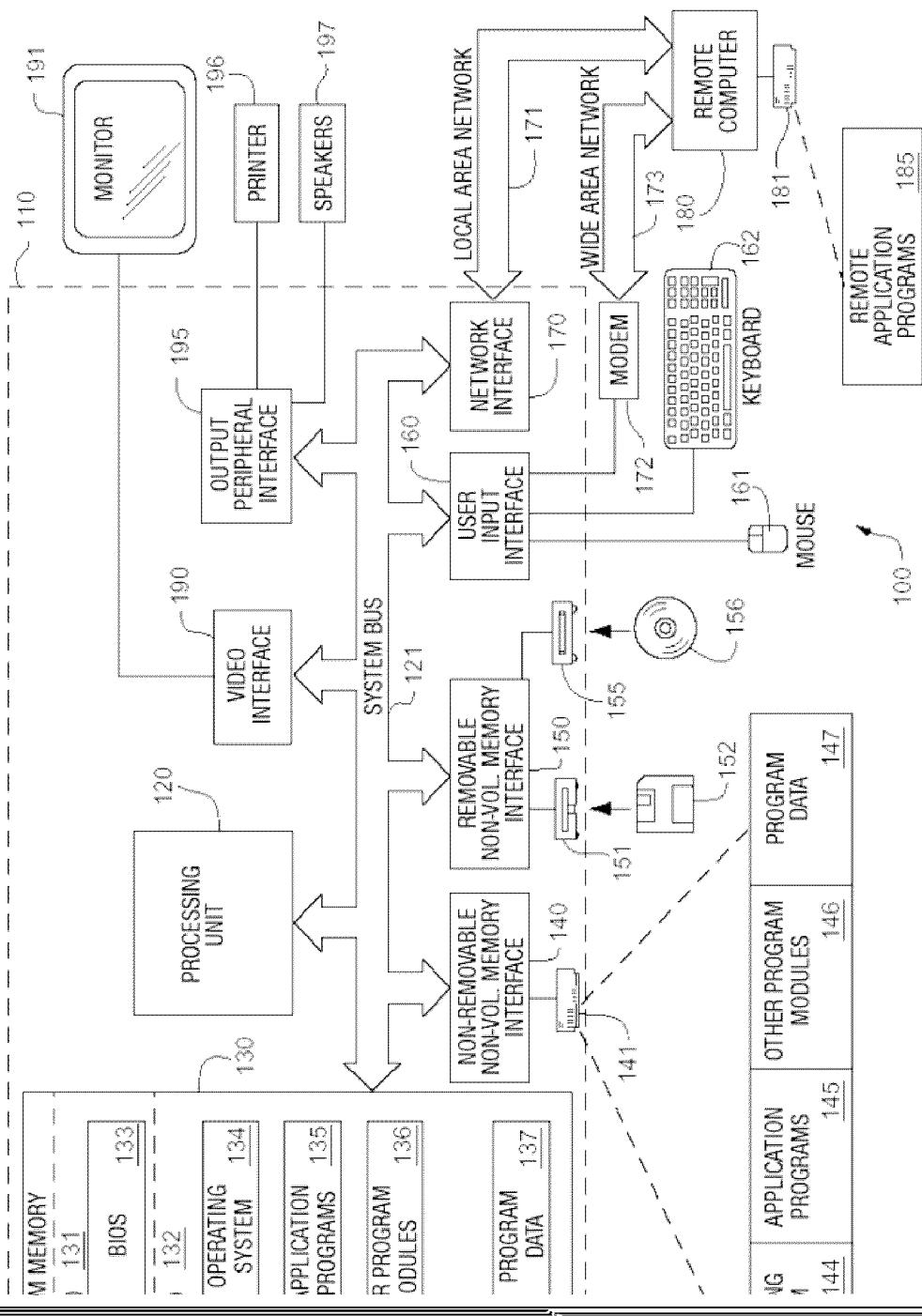
19. The media of claim 15, wherein the copy of the first file is automatically received from the first client device responsive to (i) a push request of the first client device and (ii) the user modifying the content of the first file stored on the first client device.

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 graphical availability indication of the updated version of the file to be presented (e.g., proximate a file icon representing the file) at the second client device based on the metadata.

FIG. 1



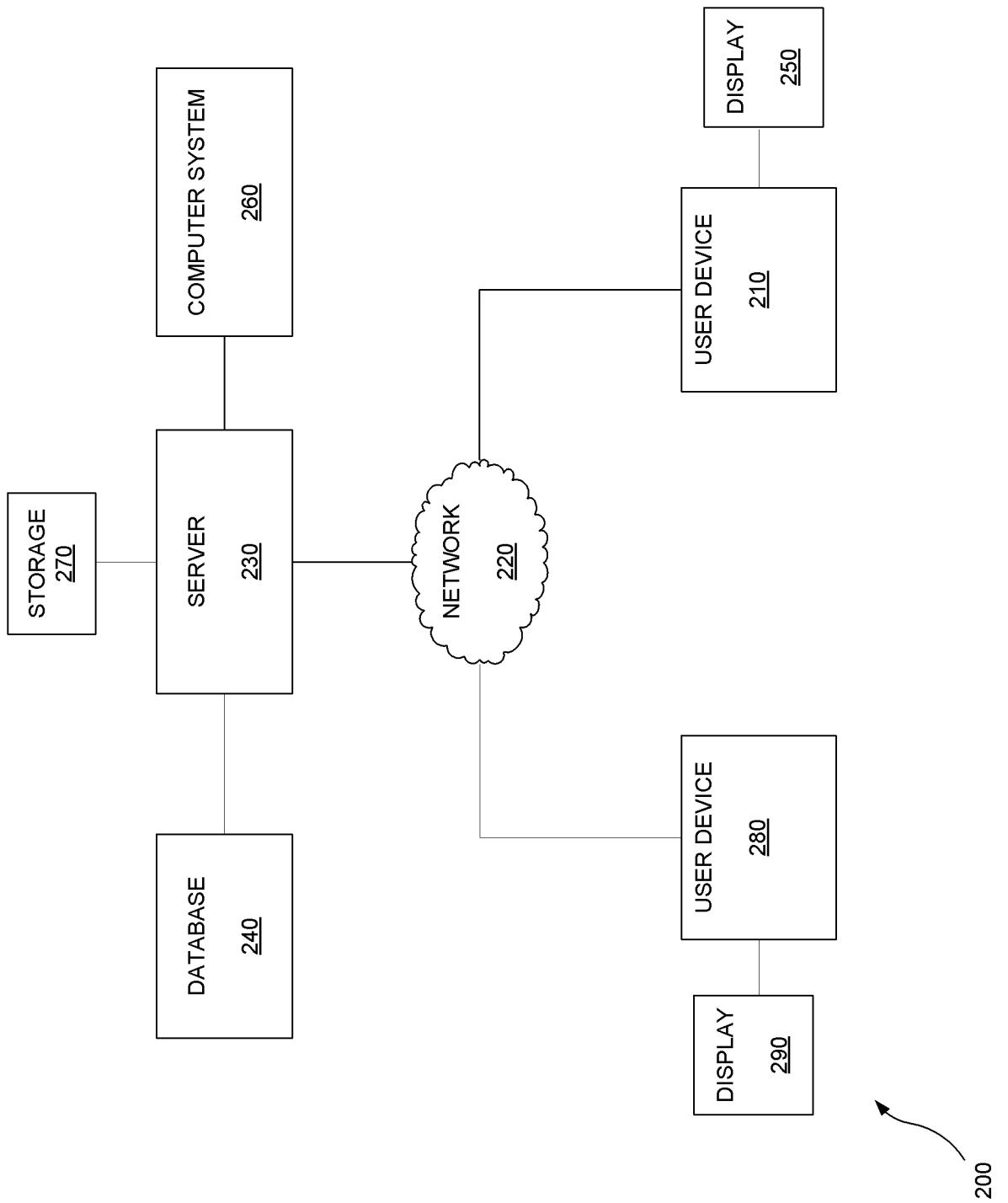


FIG. 2

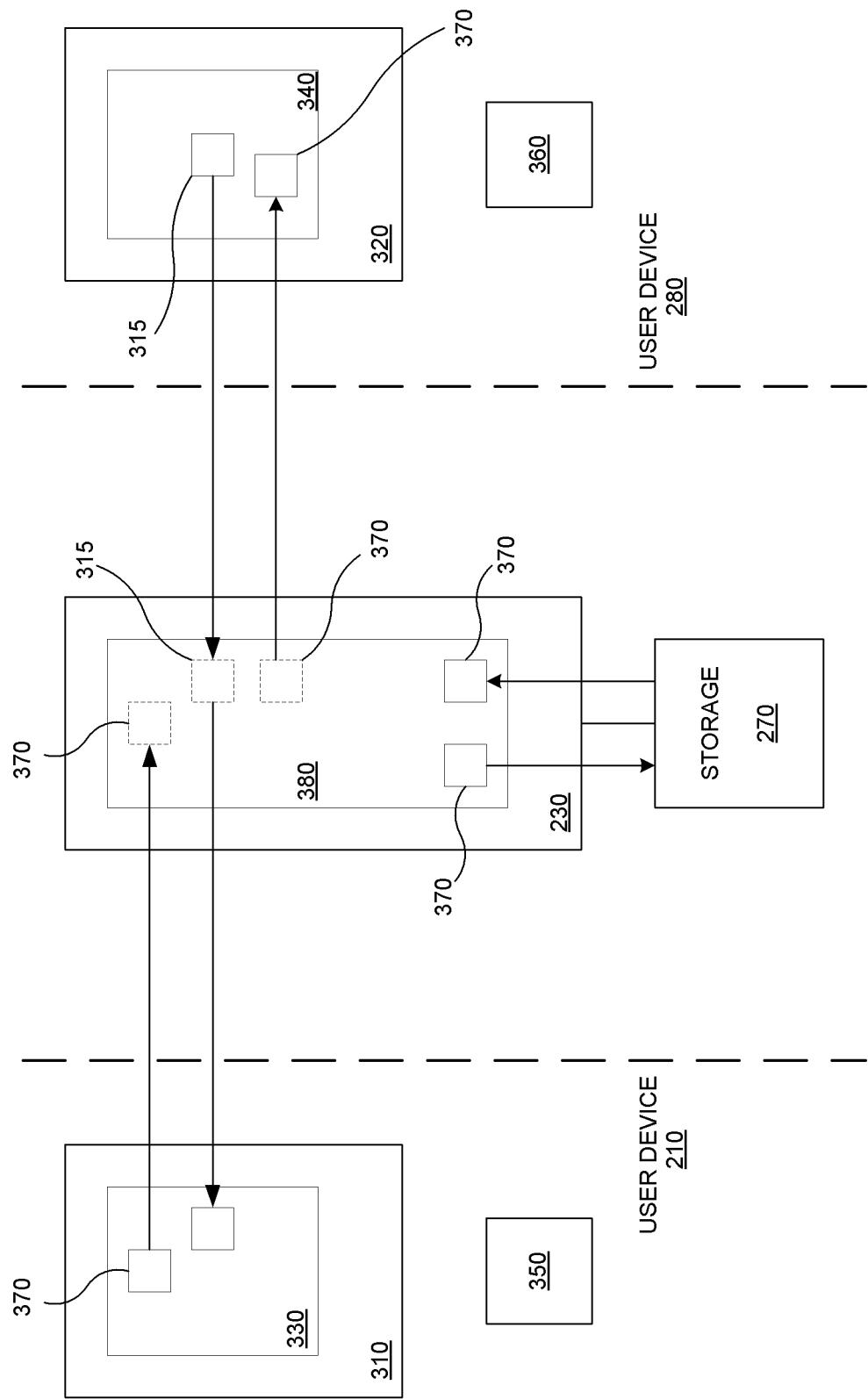


FIG. 3

Electronic Patent Application Fee Transmittal

Application Number:	
Filing Date:	
Title of Invention:	PRE-FILE-TRANSFER AVAILABILITY INDICATION BASED ON PRIORITY METADATA
First Named Inventor/Applicant Name:	Michael R. MANZANO
Filer:	Ngai Bing Zhang/Maggie Barham
Attorney Docket Number:	023027-0509068

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:	38379899
Application Number:	16750435
International Application Number:	
Confirmation Number:	2793
Title of Invention:	PRE-FILE-TRANSFER AVAILABILITY INDICATION BASED ON PRIORITY 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:	023027-0509068
Receipt Date:	23-JAN-2020
Filing Date:	
Time Stamp:	14:31:03
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	E20201ME31172414
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	023027-0509068_Track1-Request.pdf	124629 ac8081bc185a4da89242a1a7082d87bb8854a91	no	2

Warnings:**Information:**

2	Application Data Sheet	023027-0509068_ADS.pdf	1256564 070a6fceaa00ec2b62bb819f3472f3ff214dceb8a	no	9
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Warnings:**Information:**

3	Transmittal of New Application	023027-0509068_Continuation_Appln_Transmittal.pdf	255760 7122d82b5d09c32f2cb191752f2b415f3d0a5422	no	1
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Warnings:**Information:**

4	Power of Attorney	023027-0509068_373Statement_POA.pdf	341954 0e481fd4fd1af1affa01d084e639d8541e1b71b7	no	6
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Warnings:**Information:**

5	Oath or Declaration filed	023027-0509068_Dec_Substitute_Statement.pdf	133771 ef514de84cb25bc72c4e869913da1d524d91f097	no	2
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Warnings:**Information:**

6	Transmittal Letter	023027-0509068_IDS_Transmittal.pdf	93085 894c12384b83749a29e65efe4cf1254edf1bf11d	no	1
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Warnings:**Information:**

7	Information Disclosure Statement (IDS) Form (SB08)	023027-0509068_PTO-1449.pdf	691112 a8a29fcc1fcd23f04aa310b46742d84ba22 cb37	no	10
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Warnings:

Information:

This is not an USPTO supplied IDS fillable form

8	First Action Interview - Enrollment Request	023027-0509068_Request-First-Action-Interview.pdf	206475 89f1d93df86bd46458b3012afe5601a9cad8 9432	no	1
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Warnings:

Information:

9		023027-0509068_Specification_Drawings.pdf	342655 4404cad9f9519af7f54e2cc1f0900fb3d4277 26c	yes	30
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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	40140 a60eb6453b6a356c1a745a0bf4046d3fd36 c15ce	no	2
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Warnings:

Information:

Total Files Size (in bytes): 3486145

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 AVAILABILITY INDICATION 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	023027-0509068
		Application Number	
Title of Invention	PRE-FILE-TRANSFER AVAILABILITY INDICATION 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.</p> <p>This document may be completed electronically and submitted to the Office in electronic format using the Electronic Filing System (EFS) or the document may be printed and included in a paper filed application.</p>			

Secrecy Order 37 CFR 5.2:

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

Inventor Information:

Inventor	1	Remove		
Legal Name				
Prefix	Given Name	Middle Name	Family Name	Suffix
<input type="button" value="▼"/>	Michael	R.	MANZANO	<input type="button" value="▼"/>
Residence Information (Select One)		<input checked="" type="radio"/> US Residency <input type="radio"/> Non US Residency <input type="radio"/> 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 AVAILABILITY INDICATION BASED ON PRIORITIZED METADATA		
Attorney Docket Number	023027-0509068	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

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	023027-0509068
		Application Number	
Title of Invention	PRE-FILE-TRANSFER AVAILABILITY INDICATION 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	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	<input type="button" value="Remove"/>	
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
	Continuation of	16/361641	2019-03-22

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

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	023027-0509068		
		Application Number			
Title of Invention	PRE-FILE-TRANSFER AVAILABILITY INDICATION 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).

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

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

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	023027-0509068
	Application Number	
Title of Invention	PRE-FILE-TRANSFER AVAILABILITY INDICATION 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.

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	023027-0509068
	Application Number	
Title of Invention	PRE-FILE-TRANSFER AVAILABILITY INDICATION 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.

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	023027-0509068
	Application Number	
Title of Invention	PRE-FILE-TRANSFER AVAILABILITY INDICATION 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
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		

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	023027-0509068
		Application Number	
Title of Invention	PRE-FILE-TRANSFER AVAILABILITY INDICATION 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="button" value="▼"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="button" value="▼"/>
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	<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:				
<input type="button" value="Remove"/>				
NOTE: This Application Data Sheet must be signed in accordance with 37 CFR 1.33(b). However, if this Application Data Sheet is submitted with the INITIAL filing of the application and either box A or B is not checked in subsection 2 of the "Authorization or Opt-Out of Authorization to Permit Access" section, then this form must also be signed in accordance with 37 CFR 1.14(c).				
This Application Data Sheet 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	<input type="text"/> /Ngai B. Zhang/			Date (YYYY-MM-DD) <input type="text"/> 2020-01-23
First Name	<input type="text"/> Ngai	Last Name	<input type="text"/> Zhang	Registration Number <input type="text"/> 65473
Additional Signature may be generated within this form by selecting the Add button.				<input type="button" value="Add"/>

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

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	023027-0509068
	Application Number	
Title of Invention	PRE-FILE-TRANSFER AVAILABILITY INDICATION BASED ON PRIORITY 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.

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 AVAILABILITY INDICATION 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.

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

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.

25315
CUSTOMER NUMBER

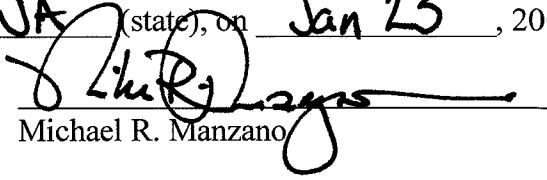
- 2 of 3 -

TPTC-1-1026ASGN

BLACK LOWE & GRAHAM PLLC


701 Fifth Avenue, Suite 4800
Seattle, Washington 98104
206.381.3300 • F: 206.381.3301

EXECUTED at Tacoma (city), WA (state), on Jan 23, 2009.

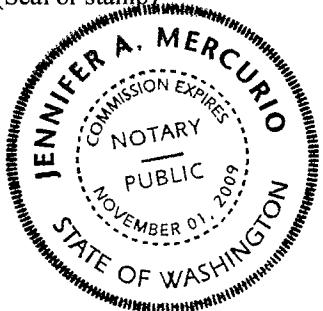

Michael R. Manzano

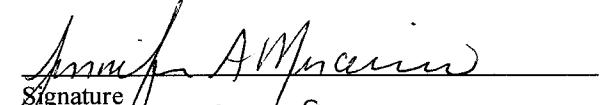
STATE OF WASHINGTON)
)
COUNTY OF -)

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)



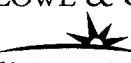

Signature
Printed Name: Jennifer A. Mercurio
Notary Public
My appointment expires 11-1-09

25315
CUSTOMER NUMBER

- 3 of 3 -

TPTC-I-1026ASGN

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701 Fifth Avenue, Suite 4800
Seattle, Washington 98104
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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

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	<i>11/03/15</i>
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.



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
16/750,435	01/23/2020	785		023027-0509068	20	3

CONFIRMATION NO. 2793

909

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

FILING RECEIPT



CC000000114628020

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: 02/10/2020

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 16/750,435**

Projected Publication Date: 05/21/2020

Non-Publication Request: No

Early Publication Request: No

**** SMALL ENTITY ****

Title

PRE-FILE-TRANSFER AVAILABILITY INDICATION 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

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PATENT APPLICATION FEE DETERMINATION RECORD

Substitute for Form PTO-875

Application or Docket Number

16/750,435

APPLICATION AS FILED - PART I

(Column 1) (Column 2)

FOR	NUMBER FILED	NUMBER EXTRA
BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A
SEARCH FEE (37 CFR 1.16(k), (l), or (m))	N/A	N/A
EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A
TOTAL CLAIMS (37 CFR 1.16(j))	20 minus 20 =	*
INDEPENDENT CLAIMS (37 CFR 1.16(h))	3 minus 3 =	*
APPLICATION SIZE FEE (37 CFR 1.16(s))	If the specification and drawings exceed 100 sheets of paper, the application size fee due is \$310 (\$155 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).	
MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))		

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

SMALL ENTITY

OR

OTHER THAN
SMALL ENTITY

RATE(\$)	FEE(\$)	RATE(\$)	FEE(\$)
N/A	75	N/A	
N/A	330	N/A	
N/A	380	N/A	
x 50 =	0.00		
x 230 =	0.00		
	0.00		
	0.00		
TOTAL	785	TOTAL	

APPLICATION AS AMENDED - PART II

(Column 1) (Column 2) (Column 3)

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

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OR

OTHER THAN
SMALL ENTITY

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

(Column 1) (Column 2) (Column 3)

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

RATE(\$)

ADDITIONAL
FEE(\$)

RATE(\$)

ADDITIONAL
FEE(\$)

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

To: docket_ip@pillsburylaw.com,,
From: PAIR_eOfficeAction@uspto.gov
Cc: PAIR_eOfficeAction@uspto.gov
Subject: Private PAIR Correspondence Notification for Customer Number 909

Feb 12, 2020 04:21:10 AM

Dear PAIR Customer:

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

The following USPTO patent application(s) associated with your Customer Number, 909 , have new outgoing correspondence. This correspondence is now available for viewing in Private PAIR.

The official date of notification of the outgoing correspondence will be indicated on the form PTOL-90 accompanying the correspondence.

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Application	Document	Mailroom Date	Attorney Docket No.
16750435	APP.FILE.REC	02/12/2020	023027-0509068

To view your correspondence online or update your email addresses, please visit us anytime at <https://spotal.uspto.gov/secure/myportal/privatepair>.

If you have any questions, please email the Electronic Business Center (EBC) at EBC@uspto.gov with 'e-Office Action' on the subject line or call 1-866-217-9197 during the following hours:

Monday - Friday 6:00 a.m. to 12:00 a.m.

Thank you for prompt attention to this notice,

UNITED STATES PATENT AND TRADEMARK OFFICE
PATENT APPLICATION INFORMATION RETRIEVAL SYSTEM



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.
16/750,435	01/23/2020	Michael R. MANZANO	023027-0509068	2793
909	7590	02/25/2020	EXAMINER	
Pillsbury Winthrop Shaw Pittman, LLP PO Box 10500 McLean, VA 22102				ART UNIT
				PAPER NUMBER 2157
		NOTIFICATION DATE		DELIVERY MODE 02/25/2020 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. 16/750,435	Applicant(s) MANZANO, Michael R.	
	Examiner CHERYL P GIBSON BAYLOR	Art Unit OPET	AIA (FITF) Status No

1. THE REQUEST FILED 23 January 2020 IS **GRANTED**.

The above-identified application has met the requirements for prioritized examination

- A. for an original nonprovisional application (Track I).
- B. for an application undergoing continued examination (RCE).

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:

- A. filing a petition for extension of time to extend the time period for filing a reply;
- B. filing an amendment to amend the application to contain more than four independent claims, more than thirty total claims, or a multiple dependent claim;
- C. filing a request for continued examination;
- D. filing a notice of appeal;
- E. filing a request for suspension of action;
- F. mailing of a notice of allowance;
- G. mailing of a final Office action;
- H. completion of examination as defined in 37 CFR 41.102; or
- I. abandonment of the application.

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.

/CHERYL GIBSON BAYLOR/
Paralegal Specialist, OPET

To: docket_ip@pillsburylaw.com,,
From: PAIR_eOfficeAction@uspto.gov
Cc: PAIR_eOfficeAction@uspto.gov
Subject: Private PAIR Correspondence Notification for Customer Number 909

Feb 26, 2020 03:46:11 AM

Dear PAIR Customer:

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

The following USPTO patent application(s) associated with your Customer Number, 909 , have new outgoing correspondence. This correspondence is now available for viewing in Private PAIR.

The official date of notification of the outgoing correspondence will be indicated on the form PTOL-90 accompanying the correspondence.

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Application	Document	Mailroom Date	Attorney Docket No.
16750435	TRACK1.GRANT	02/25/2020	023027-0509068

To view your correspondence online or update your email addresses, please visit us anytime at <https://spotal.uspto.gov/secure/myportal/privatepair>.

If you have any questions, please email the Electronic Business Center (EBC) at EBC@uspto.gov with 'e-Office Action' on the subject line or call 1-866-217-9197 during the following hours:

Monday - Friday 6:00 a.m. to 12:00 a.m.

Thank you for prompt attention to this notice,

UNITED STATES PATENT AND TRADEMARK OFFICE
PATENT APPLICATION INFORMATION RETRIEVAL SYSTEM

PLUS Search Results for S/N 16750435, Searched Mon Mar 02 09:31:12 EST 2020

The Patent Linguistics Utility System (PLUS) is a USPTO automated search system for U.S. Patents from 1971 to the present PLUS is a query-by-example search system which produces a list of patents that are most closely related linguistically to the application searched. This search was prepared by the staff of the Scientific and Technical Information Center, SIRA.

6119051 98	6381324 98	7788102 98
5644698 98	6385312 98	7805719 98
5673382 98	6389541 98	
5774670 98	6393456 98	
5826242 98	6393605 98	
5848131 98	6396593 98	
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6122631 98	6460163 98	
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5255779 98	6754699 98	
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6026405 98	7194522 98	
6058399 98	7215432 98	
6074434 98	7225133 98	
6115742 98	7249286 98	
6173279 98	7269634 98	
6185608 98	7293093 98	
6202199 98	7398524 98	
6205446 98	7467211 98	
6240444 98	7469323 98	
6256624 98	7484002 98	
6266575 98	7533024 98	
6282701 98	7552310 98	
6292830 98	7571171 98	
6353483 98	7596619 98	
6356920 98	7600225 98	
6362895 98	7681122 98	
6366967 98	7711795 98	
6381032 98	7752140 98	



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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
16/750,435	01/23/2020	Michael R. MANZANO	023027-0509068	2793
909	7590	03/13/2020	EXAMINER	
Pillsbury Winthrop Shaw Pittman, LLP PO Box 10500 McLean, VA 22102			CHANNAVAJJALA, SRIRAMA T	
			ART UNIT	PAPER NUMBER
			2157	
			NOTIFICATION DATE	DELIVERY MODE
			03/13/2020	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>Applicant-Initiated Interview Summary</i>	Application No. 16/750,435	Applicant(s) MANZANO, Michael R.	
	Examiner Srirama T Channavajjala	Art Unit 2157	AIA (FITF) Status No

All participants (applicant, applicants representative, PTO personnel):

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

(2) Ngai B. Zhang. (4) _____.

Date of Interview: 10 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: 1-2.

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 overall application

discussed claim 1 limitation "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 graphical availability(ii) the graphical availability indication is presented proximate a file icon representing the first file on a user interface of the second client device....."
"

Applicant recordation instructions: The formal written reply to the last Office action must include the substance of the interview. (See MPEP section 713.04). If a reply to the last Office action has already been filed, applicant is given a non-extendable period of the longer of one month or thirty days from this interview date, or the mailing date of this interview summary form, whichever is later, to file a statement of the substance of the 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	
--	--

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.

To: docket_ip@pillsburylaw.com,,
From: PAIR_eOfficeAction@uspto.gov
Cc: PAIR_eOfficeAction@uspto.gov
Subject: Private PAIR Correspondence Notification for Customer Number 909

Mar 13, 2020 04:24:59 AM

Dear PAIR Customer:

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

The following USPTO patent application(s) associated with your Customer Number, 909 , have new outgoing correspondence. This correspondence is now available for viewing in Private PAIR.

The official date of notification of the outgoing correspondence will be indicated on the form PTOL-90 accompanying the correspondence.

Disclaimer:

The list of documents shown below is provided as a courtesy and is not part of the official file wrapper. The content of the images shown in PAIR is the official record.

Application	Document	Mailroom Date	Attorney Docket No.
16750435	INTV.SUM.APP	03/13/2020	023027-0509068

To view your correspondence online or update your email addresses, please visit us anytime at <https://spotal.uspto.gov/secure/myportal/privatepair>.

If you have any questions, please email the Electronic Business Center (EBC) at EBC@uspto.gov with 'e-Office Action' on the subject line or call 1-866-217-9197 during the following hours:

Monday - Friday 6:00 a.m. to 12:00 a.m.

Thank you for prompt attention to this notice,

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PATENT APPLICATION INFORMATION RETRIEVAL SYSTEM



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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
16/750,435	01/23/2020	Michael R. MANZANO	023027-0509068	2793
909	7590	03/23/2020	EXAMINER	
Pillsbury Winthrop Shaw Pittman, LLP PO Box 10500 McLean, VA 22102			CHANNAVAJJALA, SRIRAMA T	
			ART UNIT	PAPER NUMBER
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			03/23/2020	ELECTRONIC

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docket_ip@pillsburylaw.com

First Action Interview Pilot Program Pre-Interview Communication	Application No. 16/750,435	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) | 3) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date <u>1/23/2020</u> | 4) <input type="checkbox"/> Other: _____ |

First Action Interview Pilot Program Pre-Interview Communication		Application No.	Applicant(s)	
		16/750,435	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	9,143,56110,067, 942; ;	double patent	See attached sheet - nonstatutory double patenting rejection and provisional non statutory double patenting rejection.
1	1,9 and 15	10,289,607;16/ 361,6411;	double paten	See attached sheet - nonstatutory double patenting rejection and provisional non statutory double patenting rejection.
1	9 and 15	16/750,399	double paten	See attached sheet - nonstatutory double patenting rejection and provisional non statutory double patenting rejection.
2	1-20	20030074376 20060026567	103	Claims 1,9,15, Benayoun disclosed "A server system comprising one or more processors (0017-0018);"receive over a network (0017-0018) a copy of a first file.....(fig 2,) to the user modifying a content....first file"(0018-0020); "receive....updated version....first file"(0021-0023);
2	1,9,15	20030074376 20060026567	103	"automatically transfer....priority...over network tois transferred tocopy of the first file....device (0021,0023-0024,0029), "wherein, before the copy....(i) transfer of ..indication of the updated version.....(0019-0020,0031); (ii) the graphical....user interface....(0030-0031)

Expanded Discussion/Commentary

2	Wherein theupdated version of the first file....(0023-0024). It is however, noted that Benayoun does not disclose"first metadaaa associated with updated version.... On the other hand, McVoy disclosed "first metadaaa associated with updated version.... (0030-0031, fig 4a-4b,fig 7, 0042-0043). It would have been obvious before the effective filing date of the applicant's claimed invention to incorporate distribution of data/metadata in a version control system of McVoy into file manager for storing several versions of files with assigned priority files of Benayouunn because that would have allowed users of Benayouunn to select file(s) associated with a priority list and respective version(s)
2,	Benayouunn (0029-0030),further allows to track modified file with respect to file version, date, file path (metadata) (McVoy (fig 4a-4b. 0031-0033). fig 1-assigned file priority. As to claim 2,10,16,Benayouunn disclosed "wherein at least one ofcomprises a priority assignment....associated to the file.....priority assignment configuration(assigned file priority attribute). On the other hand, McVoy disclosed metadata associated with the files"(Abstract, 0028)
3	As to claim 3,11,17, McVoy disclosed "wherein....file is transferred to....first metadata.....updated on the first metadata" (0029-0031) As to claim 4,12,18,Benayouun disclosed ""receiving...file from....updated version of the second file....modifying the content of the second file" (0021-0024,fig 2);"determine that the server system.....user" (fig 2-3,0019);"automatically transferolder version of the second file....(0008,0010) (i)determining that the server.....(0019-0020);(ii) receiving the copy....client device"(0030-0031)
4	As to claim 5,13,19, Benayoun disclosed "wherein the copy.....device response to (i)a push request of the first client device(fig 2-3,0033-0034) (ii) the user modifying the content....(0010,0023). Claims 6-8,14,20 are rejected further in view of US2007/0180084. As to claim 6, Benayoun disclosed "wherein the copy of the first file....runtime environment" (0008,0010). However, both Benayoun,McVoy do not disclose "mobile agent object". On the other hand, Mohenty disclosed "mobile agent object" (0025-0026), it would have been obvious
5	To combine Mohenty with Benayoun,McVoy because that would have allowed users of Benayoun,McVoy associate mobile agent objects with version and priority status.
	As to Claim 7, Mohenty disclosed "wherein...first mobile object, and wherein.....object at the server system" (fig 1A-1C,0026,0028)
9	As to Claim 8, Mohenty disclosed "wherein...first mobile object, configured to....store the copy.....server system" (0052-0053) Claims 14,20 are rejected in the analysis of claims 6-8 above and claims 14,20 are rejected on that basis

DATE:
18 March 2020

/Srirama Channavajjala/
Primary Examiner, Art Unit 2157

Notice of References CitedApplication/Control No.
16/750,435Applicant(s)/Patent Under
Reexamination
MANZANO, Michael R.Examiner
Srirama T ChannavajjalaArt 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-20060026567-A1	02-2006	McVoy; Lawrence W.	G06F16/213	717/120
*	B	US-20030074376-A1	04-2003	Benayoun, Alain	G06F16/10	1/1
*	C	US-20070180084-A1	08-2007	Mohanty; Subhashis	G06F11/1451	709/223
*	D	US-20070203927-A1	08-2007	Cave; Ellis K.	G06F16/14	1/1
*	E	US-20040003013-A1	01-2004	Coulthard, Phil	H04L67/2823	1/1
*	F	US-20020184318-A1	12-2002	Pineau, Richard A.	H04L29/06	709/206
*	G	US-20060224626-A1	10-2006	Lakshminath; Anand	G06F16/1873	1/1
*	H	US-20160125058-A1	05-2016	Jain; Arvind	G06F16/27	707/639
	I					
	J					
	K					
	L					
	M					

FOREIGN PATENT DOCUMENTS

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

NON-PATENT DOCUMENTS

Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)

*	U	
	V	
	W	
	X	

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

<i>Index of Claims</i> 	Application/Control No.	Applicant(s)/Patent Under Reexamination
	16/750,435	MANZANO, Michael R.
	Examiner	Art Unit
	Srirama T Channavajjala	2157

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

CLAIMS

Claims renumbered in the same order as presented by applicant

CPA

T.D.

□ R.1.47

Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	16/750,435	MANZANO, Michael R.
Examiner	Art Unit	
Srirama T Channavajjala	2157	

CPC - Searched*

Symbol	Date	Examiner
G06F 16/213;583;68;14;1873;27	03/18/2020	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	03/18/2020	sc
PLUS search	03/18/2020	sc
IP.COM search attached	03/18/2020	sc
google search attached	03/18/2020	sc
EAST search attached	03/18/2020	sc

Interference Search

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

/Srirama Channavajjala/ Primary Examiner, Art Unit 2157	
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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 9143661 which claims benefit of US Provisional application 60/986,896 filed on 11/09/2007

TRACK 1 request granted on 2/25/2020.

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 1/23/2020 are acceptable for examination purpose.

Information Disclosure Statement

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

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. 16/750,435 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: 16/750,435	US Patent No. 9,143,561
Claim 1,9,15 A system comprising: <u>a server system comprising one or</u> <u>more processors programmed with</u> <u>computer program instructions that, when</u> <u>executed, cause the server system to:</u> <u>receive, over a network, a copy of a</u> <u>first file from a first client device</u>	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: <u>receive from a second application</u> <u>executable on the second electronic</u>

<u>associated with a user, wherein the copy of the first file is automatically received from the first client device</u>	<u>device a copy of a first electronic file automatically transferred from the second application when the user modifies a</u>
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<p>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 <u>first file is transferred</u> to the second client device, wherein, before the copy of the first file is <u>transferred</u> to the second client device:</p> <p>(i) 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 at the second client device based on the first metadata, and</p> <p>(ii) the graphical availability indication is presented proximate a file icon representing the first file on a user interface of the second client device, and</p> <p>wherein the graphical availability indication indicates that the updated version of the first file generated from the</p>	<p>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 first electronic file</u>.</p>
--	---

user modifying the content of the first file is available to be downloaded from the server system to 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 **16/750,435** 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. 16/750,435 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: 16/750,435	US Patent No. 10,067,942
Claim 1,9,15 A system comprising: <u>a server system comprising one or more processors programmed with computer program instructions that, when executed, cause the server system to:</u> <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>	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: <u>receive</u> from a second application executable on the second electronic device a copy of a first electronic file <u>automatically transferred</u> 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><u>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;</u></p> <p><u>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,</u></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 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;</u></p> <p>wherein the second application automatically transfers the copy of the</p>
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<p>(i) 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 at the second client device based on the first metadata, and</p> <p>(ii) the graphical availability indication is presented proximate a file icon representing the first file on a user interface of the second client device, and</p> <p>wherein the graphical availability indication indicates that the updated version of the first file generated from the user modifying the content of the first file is available to be downloaded from the server system to 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 **16/750,435** 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.

8. Claims 1-20 of US Application No. 16/750,435 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: 16/750,435	US Patent No. 10,289,607
Claim 1,9,15 A system comprising: <u>a server system comprising one or</u> <u>more processors programmed with</u> <u>computer program instructions that, when</u> <u>executed, cause the server system to:</u> <u>receive, over a network, a copy of a</u> <u>first file from a first client device</u> <u>associated with a user, wherein the copy</u> <u>of the first file is automatically</u> <u>received from the first client device</u> <u>responsive to the user modifying a</u> <u>content of the first file stored on the first</u> <u>client device, the copy of the first file</u> <u>being an updated version of the first file</u>	Claim 1,12, A system, comprising: <u>a server system comprising one or</u> <u>more processors programmed with</u> <u>computer program instructions that, when</u> <u>executed, cause the server system to:</u> <u>receive, over a network, a copy of a</u> <u>first file from a first client device</u> <u>associated with a user, wherein the copy</u> <u>of the first file is automatically received</u> <u>from the first client device responsive to</u> <u>the user modifying a content of the first</u> <u>file stored on the first client device, the</u> <u>copy of the first file being a version of the</u>

<p><u>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 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;</u></p> <p><u>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</u></p>	<p>first file that is generated from the <u>user modifying the content of the first file;</u></p> <p><u>receive, from the first client device, first metadata associated with the 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;</u></p> <p>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;</p> <p><u>automatically transfer the first metadata 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</u></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) 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 at the second client device based on the first metadata, and</p> <p>(ii) the graphical availability indication is presented proximate a file icon representing the first file on a user interface of the second client device, and</p> <p>wherein the graphical availability indication indicates that the updated version of the first file generated from the user modifying the content of the first file is available to be downloaded from the server system to the second client device.</p>	<p>second client device associated with the user to replace an older version of the first file stored on the second client 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 1-20 of the instant application **16/750,435** 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 1,9,15 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: 16/750,435	Co-pending application: 16/361,641
Claim 1,9,15 A system comprising: <u>a server system comprising one or more processors programmed with computer program instructions that, when executed, cause the server system to:</u> <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</u>	Claim 1,12,18 A system comprising: <u>a server system comprising one or more processors programmed with computer program instructions that, when executed, cause the server system to:</u> <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</u>

<p><u>being an updated version of the first file</u> <u>that is generated from the user modifying</u> <u>the content of the first file;</u></p> <p><u>receive, over a network, from the first</u> <u>client device, first metadata associated</u> <u>with the updated version of the first file</u> <u>that is generated from the user modifying</u> <u>the content of the first file, the first</u> <u>metadata being assigned a first priority</u> greater than a second priority assigned to the copy of the first file;</p> <p><u>automatically transfer, based on the</u> first priority being greater than the second priority, <u>the 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 <u>first file</u> is <u>transferred</u> to the second client device, wherein, before the copy of the first file is transferred to the second client</p>	<p>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;</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, over a</u> network, the copy of the first file to the second client device associated with the user to <u>replace an older version of</u> <u>the first file</u> stored on the second client 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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<p>device:</p> <p>(i) 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 at the second client device based on the first metadata, and</p> <p>(ii) the graphical availability indication is presented proximate a file icon representing the first file on a user interface of the second client device, and</p> <p>wherein the graphical availability indication indicates that the updated version of the first file generated from the user modifying the content of the first file is available to be downloaded from the server system to the second 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 **16/750,435** 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.

Claim 1,9,15 provisionally rejected on the ground of nonstatutory double patenting as being unpatentable over claim 1,12,18 of copending Application No. **16/750,399** (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: 16/750,435	Co-pending application: 16/750,399
Claim 1,9,15 A system comprising: <u>a server system comprising one or more processors programmed with computer program instructions that, when executed, cause the server system to:</u> <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</u>	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: <u>receive, over a network, a copy of a first file from a first client device associated with a user, wherein the copy</u>

<p><u>received from the first client device</u></p> <p><u>responsive to the user modifying a</u></p> <p><u>content of the first file stored on the first</u></p> <p><u>client device, the copy of the first file</u></p> <p><u>being an updated version of the first file</u></p> <p><u>that is generated from the user modifying</u></p> <p><u>the content of the first file;</u></p> <p><u>receive, over a network, from the first</u></p> <p><u>client device, first metadata associated</u></p> <p><u>with the updated version of the first file</u></p> <p><u>that is generated from the user modifying</u></p> <p><u>the content of the first file, the first</u></p> <p><u>metadata being assigned a first priority</u></p> <p>greater than a second priority assigned to</p> <p>the copy of the first file;</p> <p><u>automatically transfer, based on the</u></p> <p>first priority being greater than the second</p> <p>priority, <u>the first metadata</u> over a network</p> <p>to a second client device associated with</p> <p>the user such that the first metadata is</p> <p>transferred to the second client device</p>	<p>of the first file is <u>automatically</u></p> <p><u>received from the first client device</u></p> <p><u>responsive to the user modifying a</u></p> <p>content of the first file stored on the first</p> <p>client device, the copy of the first file</p> <p>being a version of the first file that is</p> <p>generated from the user modifying the</p> <p>content of the first file;</p> <p>determine that the server system</p> <p>is not in communication with a second</p> <p>client device associated with the user;</p> <p>and</p> <p>store the copy of the first file on</p> <p>the server system;</p> <p><u>automatically transfer</u>, over a</p> <p>network, the copy of the first file to the</p> <p>second client device associated with the</p> <p>user to <u>replace an older version of</u></p> <p><u>the first file</u> stored on the second client</p> <p>device, responsive to</p> <p>(i) resuming communication with the</p>
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<p>before the copy of the <u>first file</u> 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) 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 at the second client device based on the first metadata, and</p> <p>(ii) the graphical availability indication is presented proximate a file icon representing the first file on a user interface of the second client device, and</p> <p>wherein the graphical availability indication indicates that the updated version of the first file generated from the user modifying the content of the first file is available to be downloaded from the server system to the second client device.</p>	<p>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 1-20 of U.S. instant application **16/750,435** to arrive at the claims 1-20 of the co-pending 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.

Conclusion

The prior art made of record

- a. US Pub. No. 20030074376
- b. US Pub. No 20060026567
- c. US Pub. No 2007/0180084

Examiner's Note: Examiner has cited particular columns and line numbers in the references applied to the claims above for the convenience of the applicant. Although the specified citations are representative of the teachings of the art and are applied to specific limitations within the individual claim, other passages and figures may apply as well. It is respectfully requested from the applicant in preparing responses, to fully consider the references in entirety as potentially teaching all or part of the claimed invention, as well as the context of the passage as taught by the prior art or disclosed by the Examiner.

SEE MPEP 2141.02 [R-5] VI. PRIOR ART MUST BE CONSIDERED IN ITS ENTIRETY, INCLUDING DISCLOSURES THAT TEACH AWAY FROM THE CLAIMS:

A prior art reference must be considered in its entirety, i.e., as a whole, including portions that would lead away from the claimed invention. W.L. Gore & Associates, Inc. v. Garlock, Inc., 721 F.2d 1540, 220 USPQ 303 (Fed. Cir. 1983), cert. denied, 469 U.S. 851 (1984) In re Fulton, 391 F.3d 1195, 1201,73 USPQ2d 1141, 1146 (Fed. Cir. 2004).

>See also MPEP §2123.

In the case of amending the Claimed invention, Applicant is respectfully requested to indicate the portion(s) of the specification which dictate(s) the structure relied on for proper interpretation and also to verify and ascertain the metes and bounds of the claimed invention.

The prior art made of record, listed on form PTO-892, and not relied upon, if any, is considered pertinent to applicant's disclosure.

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

Inventor Information for 16/750435

Inventor Name	City	State/Country
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The version metadata		+ 0 results 19' 1 filter
	1 - 50	61 / 517 results
1.	Distribution of data/metadata in a version control system	View Edit Delete
	A version control system capable of distributing data/metadata is provided. The invention provides a version control system capable of replicating version control data on an as needed basis so as to more efficiently maintain and operate the version control system.	
CURRENT ASSIGNEE: MCINTYRE LAWRENCE W (-1)	US200903028587 US APPLICATIONS 02-JUN-2008	View Edit Delete
2.	Nondisruptive method for encoding file meta-data into a file name	View Edit Delete
	A method and article of manufacture for encoding file metadata into a file name used in a computer system is disclosed. Metadata is added to an original file name and extension created by a user. The metadata may be in the form of a left padded, monotonically increasing number which operates similar...	
CURRENT ASSIGNEE: INTEL BUSINESS MACHINES CORP	US20080289591 US APPLICATIONS 16-NOV-2008	View Edit Delete
3.	System and method for storage of snapshot metadata in a remote file	View Edit Delete
	of the content of the file are extracted from the file to generate a first set of...	
CURRENT ASSIGNEE: APPLE INC	US20080289591 US APPLICATIONS 29-DEC-2008	View Edit Delete
4.	Format for managing metadata and description object data	View Edit Delete
	(57) [Problem] There is a possibility that MPEG-7 metadata is implemented in the same file as the data to be described or in a separate file. Therefore, it has been pointed out that the problem is that the consistency between the metadata at hand of the user and the data to be described cannot be...	
CURRENT ASSIGNEE: CANON INC	JP2009155017A JAPAN APPLICATIONS 20-MAY-2009	View Edit Delete
5.	The Roma personal metadata service	View Edit Delete
	People now have available to them a diversity of digital storage devices, including palmtops, cell phone address books, laptops, desktop computers and Web-based services. Unfortunately, as the number of personal data repositories increases, so does the management problem of ensuring that the most...	
6.	System and method for storage of snapshot metadata in a remote file	View Edit Delete
	In a system and method for updating a remote replicated destination file system snapshot with changes to a source file system snapshot, the snapshot being associated with a qtree (or other sub-organization of the file system volume), a qtree metadata file on the destination is provided, the qtree...	
CURRENT ASSIGNEE: NETAPP INC	US20090302822 US APPLICATIONS 25-SEP-2008	View Edit Delete
7.	System for reusing design resources in integrated circuit design	View Edit Delete
	SUMMARY: The present invention provides a knowledge management system that is particularly suited for use in an integrated circuit design environment (FIG. 1). This system allows administrators to define standardized component types. The instantiated component contains "deliverable" and "attribute"...	
CURRENT ASSIGNEE: MENTOR GRAPHICS CORP	JP2009155017A JAPAN APPLICATIONS 02-MAY-2009	View Edit Delete
8.	Method for reusing design property in integrated circuit design	View Edit Delete
	A knowledge management system suitable for use in an integrated circuit design environment is provided. The instantiated component includes "deliverable" and "attribute". A deliverable includes a file, a directory of files, a group of files, or a group of directories that perform common functions...	
CURRENT ASSIGNEE: ALGEMIRA TECH INC (-1)	US20090304532 US APPLICATIONS 26-APR-2009	View Edit Delete
9.	Information storage medium for storing metadata supporting multiple languages and systems and methods of processing metadata	View Edit Delete
	An information storage medium for storing metadata supporting multiple languages and a method of processing the metadata are provided. The information storage medium is provided to store contents, and at least one metadata file in which information regarding the contents is recorded in at least one...	
CURRENT ASSIGNEE: SAMSUNG ELECTRIC CO LTD	EP1908563A1 EP0 APPLICATIONS 11-JUL-2007	View Edit Delete
10.	System and method for storage of snapshot metadata in a remote file	View Edit Delete
	In a system and method for updating a remote replicated destination file system snapshot with changes to a source file system snapshot, the snapshot being associated with a qtree (or other sub-organization of the file system volume), a qtree metadata file on the destination is provided, the qtree...	
CURRENT ASSIGNEE: NETAPP INC	US7044405 US PATENTS 09-MAY-2008	View Edit Delete
11.	Methods and systems for managing data	View Edit Delete
	Systems and methods for managing data, such as metadata. In one exemplary method, a selection of at least one file having metadata stored in a metadata database is received, and a selection of a command to search, using at least a portion of the metadata, is received, and a search through the...	
CURRENT ASSIGNEE: APPROVE IT INC	US200903288307 US APPLICATIONS 26-DEC-2008	View Edit Delete
12.	Methods and systems for managing data	View Edit Delete
	Systems and methods for managing data, such as metadata. In one exemplary method, a selection of at least one file having metadata stored in a metadata database is received, and a selection of a command to search, using at least a portion of the metadata, is received, and a search through the...	
CURRENT ASSIGNEE: APPROVE IT INC	US200903288307 US APPLICATIONS 26-DEC-2008	View Edit Delete
13.	Electronic media player with metadata based control and method of operating the same	View Edit Delete
	A method and apparatus is described that prevents viewing or other type of playback of unauthorized copies of media files, whether received through a network or retrieved from a magnetic or optical disc. The apparatus	

uses data in a metadata field that forms a part of the media files. Viewing or...

CURRENT ASSIGNEE: WARNER MEDIA LLC
US20060000741 | US APPLICATIONS | 14-APR-2005

8 8 8 8 8

28. Methods and systems for managing data

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...

CURRENT ASSIGNEE: APPLE INC
US20050000203 | US APPLICATIONS | 09-FEB-2005

8 8 8 8 8

29. Methods and systems for managing data

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...

CURRENT ASSIGNEE: APPLE INC
US20050000203 | US APPLICATIONS | 17-MAY-2005

8 8 8 8 8

30. Methods and systems managing data

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 information...

CURRENT ASSIGNEE: APPLE INC
US20050000459 | US APPLICATIONS | 17-AUG-2005

8 8 8 8 8

31. Methods and systems for managing data

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 information...

CURRENT ASSIGNEE: APPLE INC
US20050000459 | US APPLICATIONS | 24-AUG-2005

8 8 8 8 8

32. Methods and systems for managing data

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 information...

CURRENT ASSIGNEE: APPLE INC
US20050000459 | US APPLICATIONS | 29-DEC-2005

8 8 8 8 8

33. Electronic media player with metadata based control and method of operating the same

A method and apparatus is described that prevents viewing or other type of playback of unauthorized copies of media files, whether received through a network or retrieved from a magnetic or optical disc. The apparatus uses data in a metadata field that forms a part of the media files. Viewing or...

CURRENT ASSIGNEE: WARNER MEDIA LLC
WO20050038366A2 | WO/P APPLICATIONS | 21-APR-2005

8 8 8 8 8

34. Continuous availability and efficient backup for externally referenced objects

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...

CURRENT ASSIGNEE: INT'L BUSINESS MACHINES CORP
US6008859 | US PATENTS | 11-NOV-2000

8 8 8 8 8

35. Methods and systems for managing data

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...

CURRENT ASSIGNEE: SHILOU YAN | ET AL
US2005017410 | US APPLICATIONS | 26-JUL-2005

8 8 8 8 8

36. Methods and systems for managing data

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 information...

CURRENT ASSIGNEE: LEHMAN STEPHEN O | ET AL
US2005012900 | US APPLICATIONS | 17-MAY-2005

8 8 8 8 8

37. Methods and systems for managing data

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 information...

CURRENT ASSIGNEE: APPLE INC
US20050024629 | US APPLICATIONS | 16-SEP-2005

8 8 8 8 8

38. Information storage medium for storing metadata supporting multiple languages and systems and methods of processing metadata

The invention claims a method for storing support several kinds of language the metadata of the information storage medium and is used to process the said element method for data. Providing the information storage medium for storing Content And at least one element data file in said at least one...

CURRENT ASSIGNEE: SAMSUNG ELECTRIC CO LTD
CN2005064394 | CHINA APPLICATIONS | 25-JUL-2005

8 8 8 8 8

39. Methods and systems for management data

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 information...

CURRENT ASSIGNEE: APPLE INC
US20050024629 | US APPLICATIONS | 16-SEP-2005

8 8 8 8 8

40. Method, system and program product for extracting essence from a multimedia file received in a first format, creating a metadata file in a second file format and using a unique

Identifier assigned to the essence to access the essence and metadata file

Provided is a method, system, and program for storing data in a data store, a first file in a first file format is received including essence, metadata objects providing information on the essence, and a unique identifier assigned to the essence. The essence is extracted from the file and stored in..

CURRENT ASSIGNEE: INTEL BUSINESS MACHINES CORP
US7148750 | US PATENTS | 12-DEC-2009

View Details

38. Systems and methods for distributed system scanning

Systems and methods are provided for scanning files and directories in a distributed file system on a network of nodes. The nodes include metadata with attribute information corresponding to files and directories distributed on the nodes. In one embodiment, the files and directories are scanned by..

CURRENT ASSIGNEE: DELL INC
US20070094865 | US APPLICATIONS | 26-APR-2007

View Details

39. Intelligent metadata attribute resolution

A method and system for retrieving metadata for a media file. A source selection component includes instructions for querying a plurality of metadata sources in a predetermined order to retrieve metadata for the media file. The source selection component also includes instructions for retrieving..

CURRENT ASSIGNEE: MICROSOFT TECH LICENSING LLC
US20060065389 | US APPLICATIONS | 20-JAN-2006

View Details

40. Methods and systems for managing data

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 information..

CURRENT ASSIGNEE: APPLE INC
US20050095429 | US APPLICATIONS | 31-MAR-2005

View Details

41. Method, system, and program for storing data in a data store

Provided is a method, system, and program for storing data in a data store, a first file in a first file format is received including essence, metadata objects providing information on the essence, and a unique identifier assigned to the essence. The essence is extracted from the file and stored in..

CURRENT ASSIGNEE: INTEL BUSINESS MACHINES CORP
US20030152119 | US APPLICATIONS | 16-JUN-2003

View Details

42. System for intellectual property reuse in integrated circuit design

The invention provides a knowledge management system particularly suited for use in the integrated circuit design environment. The system allows administrators to define standardized component types. Instantiated components versions comprise "deliverables" and "attributes." Deliverables comprise a..

CURRENT ASSIGNEE: MENTOR GRAPHICS CORP
US20020099730 | US APPLICATIONS | 14-JUL-2002

View Details

43. Detecting, Managing and Querying Replicas and Versions in a Peer-to-Peer Environment

(P2P) systems provide sharing of resources, which may be duplicated or versioned in several peers. However, traditional P2P systems are not aware of such replicas and versions, which arises an inefficiency and inefficacy problem. To solve this issue, our work proposes an automatic mechanism for..



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..

CURRENT ASSIGNEE: APPLE INC
US20050289193 | US APPLICATIONS | 29-DEC-2005

View Details

44. System for intellectual property reuse in integrated circuit design

The invention provides a knowledge management system particularly suited for use in the integrated circuit design environment. The system allows administrators to define standardized component types. Instantiated components versions comprise "deliverables" and "attributes." Deliverables comprise a..

CURRENT ASSIGNEE: MENTOR GRAPHICS CORP
US200101018 | US PATENTS | 01-NOV-2001

View Details

45. Methods and systems for managing data

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 information..

CURRENT ASSIGNEE: APPLE INC
US20050255385 | US APPLICATIONS | 15-JUN-2005

View Details

46. Versioned file group repository

Techniques are provided for managing electronic items by storing, within a file group repository, metadata that identifies (a) a plurality of file groups, (b) for each file group, a set of one or more file group versions for the file group, and (c) for each file group version of each file group, a..

CURRENT ASSIGNEE: ORACLE CORP
US20060209262 | US APPLICATIONS | 05-OCT-2006

View Details

47. System and method for defining and inserting metadata attributes in files

In one embodiment, file attributes of a desired file are sent along with the URL to the storing server and the attributes are used for subsequent retrieval of the file. Attributes, such as the text or title of the file, the language of the file, the creator of the file, etc, can all be added to the..

CURRENT ASSIGNEE: INTERFACE LLC
US20070209827 | US APPLICATIONS | 30-AUG-2007

View Details

Bibliographic Data

Application No: 16/750,435

Foreign Priority claimed: Yes No

35 USC 119 (a-d) conditions met: Yes No

Verified and Acknowledged: /Srirama Channavajjala/

Examiner's Signature

Met After Allowance

Initials

Title:

PRE-FILE-TRANSFER AVAILABILITY INDICATION BASED ON
PRIORITYIZED METADATA

FILING or 371(c) DATE	CLASS	GROUP ART UNIT	ATTORNEY DOCKET NO.
01/23/2020	707	2157	023027-0509068
RULE			

APPLICANTS

TOPIA TECHNOLOGY, INC., Tacoma, WA, UNITED STATES

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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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02/10/2020

** SMALL ENTITY **

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UNITED STATES

FILING FEE RECEIVED

\$2,855

SEARCH TERMS

files copies mobile devices

+ Synonym

+ Synonym

SEARCH FIELDS

Date - Priority -

YYYY-MM-DD — YYYY-MM-DD

+ Inventor

+ Assignee

Patent Office Language

Status Type

Litigation

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System and method for managing application installation for a mobile device

WO EP US JP CA CA2295172Q · James Chen · Microsoft Corporation

Priority 1997-10-24 · Filed 1998-10-21 · Granted 2002-01-16 · Published 2002-01-16

63—THE EMBODIMENTS OF THE INVENTION IN WHICH AN EXCLUSIVE PROPERTY OR PRIVILEGE IS CLAIMED ARE DEFINED AS FOLLOWS: Group A 1. —A method of installing applications for a plurality of mobile devices from a storage source, wherein each mobile device is of a different type, the method comprising:

Short-range mobile honeypot for sampling and tracking threats

US · US8528006B2 · Bruce McCorkendale · RedFridge Networks, LLC

Priority 2009-09-15 · Filed 2009-09-15 · Granted 2013-09-03 · Published 2013-09-03

Files received by a mobile device are sampled for malware tracking. The method includes configuring file transfer mechanisms that use short-range communication technology on the mobile device to appear, to other devices, to be open for accepting all attempts to transfer files. The method further ...

Reprogramming system and method for devices including programming symbol

US · US8195832B2 · Robert M. Sause, III · Hand Held Products, Inc.

Priority 2003-07-03 · Filed 2006-02-15 · Granted 2012-06-12 · Published 2012-06-12

A system and method is provided wherein a device can be reprogrammed utilizing one or more programming symbols. A device subject to reprogramming can be a portable device. In one embodiment a device subject to reprogramming can be a portable symbol reading device capable of reading programming ...

Via communication network to the local file server of remote file server ...

WO EP US CN JP CN1922790289 · 黑井仁 · #未公开#

Priority 2010-05-27 · Filed 2010-05-27 · Granted 2016-05-30 · Published 2016-05-30

The invention provides a kind of transmisi the local file server of file via communication network to remote file server and there is the storage system of this file server. The remote file server that remote storage is managed with the focal file server that local storage manages is connected ...

Mobile imaging application, device architecture, service platform architecture ...

US · US8845596B2 · John D. Ratajko · Sencore Technologies LLC

Priority 2002-04-10 · Filed 2011-02-28 · Granted 2014-09-30 · Published 2014-09-30

Systems and methods are provided for compressing and decompressing still image and video image data in mobile devices and monitoring applications. Corresponding mobile device and cameras architectures, and service platform architectures for transmitting, storing, editing and transcoding still ...

Mobile communications device access from personal computer

US · US8588444B2 · Matthew Bell · Research In Motion Limited

Priority 2006-07-21 · Filed 2011-04-29 · Granted 2013-07-23 · Published 2013-07-23

A method is described for providing files to a mobile communications device from an associated personal computer over one of a plurality of potential communication paths between the mobile communications device and the computer. The method includes receiving at the computer a user request that a ...

Information management of data associated with multiple cloud services

US · US1897652B2 · Manoj Kumar Vijayan · CommVault Systems, Inc.

Priority 2012-03-06 · Filed 2017-01-06 · Granted 2018-09-11 · Published 2018-09-11

A method and system for providing information management of data from hosted services receives information management policies for a hosted account of a hosted service, requests data associated with the hosted account from the hosted service, receives data associated with the hosted account from ...

Electronic device security and tracking system and method

US · US8529523B2 · Apurva Mahendrakumar Bhambhani · Reflex Incorporated

Priority 2003-08-23 · Filed 2006-07-11 · Granted 2013-09-10 · Published 2013-09-10

A system and method for securing and tracking an electronic device. The system includes hardware, software and firmware components that cooperate to allow tracking, disabling, and other interaction with the stolen electronic device. The system includes an application component, non-viewable ...

System and method for interaction between one or more desktop computers and one

Previous Next Last

US 7,298,120 B2 - Device Manager - Microsoft Corporation

Priority 1997-10-24 · Filed 1998-10-22 · Granted 2007-03-07 · Published 2001-08-07

A system and method of interaction between a computer, such as a desktop computer, and a plurality of mobile devices include storing a first identifier on a first mobile device and the computer, and storing a second identifier on a second mobile device and the computer, wherein the second ...

Digital rights management in a mobile communications environment

WO 2008044412 A1 - Cognitiva S.p.A. - 2008-04-10

Priority 2007-07-06 · Filed 2007-07-03 · Granted 2008-10-02 · Published 2008-02-07

The present invention provides one kind of access is controlled by the mobile wireless device using a digital certificate of digital assets, copy and / or transfer methods, systems, and computer program products. The digital certificate contains a reference to the main content on a particular ...

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SEARCH TERM:

files versions transfer + Synonym

+ Synonym

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Date • Priority

YYYY-MM-DD — YYYY-MM-DD

+ Inventor

+ Assignee

Patent Office Language

Status Type

Litigation

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Transaction based virtual file system optimized for high-latency network ...

WO EP US - US7900335B2 - Robert O. Keith, Jr. - Maxxip Corporation

Priority 2004-05-03 • Filed 2005-06-02 • Granted 2011-03-15 • Published 2011-03-16

A method and system are provided for a virtual distributed data manager. In one example of the method, the virtual data manager involves receiving a request to mount a file system onto the client computer, wherein the file system is stored on the server system and contains the one or more data

Processing software images for use in generating difference files

WO EP US CN JP KR - US7989270B2 - Liwei Ren - Innopath Software

Priority 2003-06-20 • Filed 2003-06-20 • Granted 2008-08-06 • Published 2008-08-06

Systems and methods are provided for pre-processing original and new versions of files as part of difference file generation between the original and new file versions, for example byte-level file differencing. Software/executable changes between file versions include primary changes/logical ...

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

US - US5884529A - William Lewis Veghte - Microsoft Corporation

Priority 1993-06-08 • 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 their synchronization status reported. Based on the synchronization status, the operating system recommends a preferred reconciliation action. Furthermore, file conflicts are recognized ...

Data management system

WO EP US - EP3215594B1 - Arvind Jain - Rubrik, Inc.

Priority 2014-11-04 • Filed 2015-11-04 • Granted 2019-07-24 • Published 2019-07-24

A method for operating a data management system, comprising: acquiring (612) a first snapshot of a first virtual machine, the first snapshot comprises a full image of the first virtual machine; generating (614) a signature for the first virtual machine using the full image, the method

System and method for quick downloading of electronic files

WO EP US AU - US6481239B1 - Menachem Nitai - ETSI S. Advanced Software Systems Ltd.

Priority 1999-03-27 • Filed 1999-03-22 • Granted 2002-06-04 • Published 2002-06-04

A system for transferring a delta file from a first computer to a second computer includes a delta builder on the first computer, a download manager, and a restorer on the second computer. The first computer has a first version of a file and a second version of the file, and the second computer ...

Virtual file-sharing network

WO EP US AU - US884772B2 - Etai Lev Ran - Cisco Technology, Inc.

Priority 2001-08-01 • Filed 2010-03-15 • Granted 2017-01-17 • Published 2017-01-17

CROSS-REFERENCE TO RELATED APPLICATIONS This is a divisional of application Ser. No. 13/408,260 filed on Apr. 26, 2009, which is a divisional of application Ser. No. 10/485,178 filed Jul 28, 2004 (now U.S. Pat. No. 7,139,811) which is a 371 of International Application IL2002/000627 filed on Jul

Distributed file system backup and synchronization

US - US8824664B2 - Matthew Dornquist - Code 42 Software, Inc.

Priority 2014-03-30 • Filed 2014-12-31 • Granted 2018-02-27 • Published 2018-02-27

Systems and techniques for a distributed file system element collection are described herein. A node may identify a state of a file system element, which is identified in a file system element definition, from a local data store. The state corresponds to a distribution action. The file system ...

Nonintrusive update of files

US - US8666614B1 - Dmitry Barboev - Xtrash Inc.

Priority 1999-11-12 • Filed 1999-11-12 • Granted 2003-06-06 • Published 2003-06-06

Updating a file which is currently open is accomplished by allowing current users to continue accessing the original file while redirecting new users to an updated version. When user activity permits, the updated version is substituted for the original file. An auxiliary program detects when a

Systems and methods for adaptive copy on write

US - US8229832B2 • Darren P. Schack • EMC Corporation

Priority 2007-06-21 • Filed 2011-01-14 • Granted 2012-06-12 • Published 2012-06-12

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

Managed peer-to-peer applications, systems and methods for distributed data ...

WO EP US - EP1751745B1 • Lambertus Hessellek • Western Digital Technologies, Inc.

Priority 2003-11-14 • Filed 2004-11-13 • Granted 2019-07-10 • Published 2013-07-10

A system (10) for establishing a secure network among at least two computers over a public wide area network (16), said system (10) comprising: a first computer (12a, 12b) connectable to the public wide area network (16) through a first firewall element (22), said first firewall element (22) ...

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files priorities metadata versions

+ Synonym

+ Synonym

SEARCH FIELDS

Date Priority

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

+ Inventor

+ Assignee

Patent Office Language

Status Type

Litigation

System and method for policy based synchronization of remote and local file ...

WO US · WO20150916592A1 · Ravi Wijayaratne · Egnyte, Inc.

Priority 2014-07-21 · Filed 2015-07-21 · Published 2016-01-28

A method for synchronizing a local file system (LFS) and a remote (cloud) file system (RFS) includes the step of storing events indicative of differences between the LFS and the RFS, where the events are associated with file system objects of the LFS and RFS. The method further includes the steps ...

System and method for policy based synchronization of remote and local file ...

· US20160973352A1 · Ravi Wijayaratne · Egnyte, Inc.

Filed 2013-06-13 · Published 2016-03-16

A method for synchronizing a local file system (LFS) and a remote (cloud) file system (RFS) includes the step of storing events indicative of differences between the LFS and the RFS, where the events are associated with file system objects of the LFS and RFS. The method further includes the steps ...

Methods and systems for managing data

WO EP US CN HK · US8155139B2 · 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

WO EP US CN HK · US8131674B2 · Yan Arrouye · Apple Inc.

Priority 2004-06-25 · Filed 2008-04-22 · Granted 2011-03-16 · 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 ...

Methods and systems for managing data

WO EP US DM HK · US8291493B2 · Yan Arrouye · Apple Inc.

Priority 2004-06-25 · Filed 2013-09-26 · Granted 2015-12-01 · Published 2016-12-01

Systems and methods for managing data, such as metadata or indexes for index databases. In one exemplary method, different processing priorities are assigned to different indexing tasks based upon the origin of the task. In another exemplary method, indexing tasks are processed in a first mode ...

Mobile mirror drive and remote access system

US · US20110285738A1 · Joseph Chain · Joseph Chain

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 ...

System and method for providing computing environment delivery service with ...

US · US20140177783A1 · Aaron SUZUKI · Prowess Consulting, Inc.

Priority 2012-12-17 · Filed 2013-12-17 · Published 2014-06-19

Systems and methods are presented to provide computing environment delivery service with offline operations. The systems and methods presented may provide a cloud based device management and provisioning system that may be by design both hardware and operating system agnostic. The systems and ...

Avoiding client timeouts in a distributed filesystem

US · US8521509B2 · Richard Sharpe · Panzura, Inc.

Priority 2010-06-03 · Filed 2013-06-26 · Granted 2017-12-26 · Published 2017-12-26



The invention encompasses techniques that facilitate or avoid the creation of 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 ...

Cataloguing backup data

WO EP US CN - EP2915078A1 - Albrecht Schreth - Hewlett-Packard Development Company, L.P.

Priority 2012-10-31 · Filed 2012-10-31 · Published 2016-05-06

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 ...

Network optimized deduplication of virtual machine snapshots

WO EP US - US19202112922 - Avind Jain - Rubrik, Inc.

Priority 2014-11-04 · Filed 2015-02-20 · Granted 2019-05-07 · Published 2019-05-07

Methods and systems for managing, storing, and serving data within a virtualized environment are described. In some embodiments, a data management system may manage the extraction and storage of virtual machine snapshots, provide near instantaneous restoration of a virtual machine or one or more ...

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Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S3	53	S2 and (copy\$3 near5 file\$1)	USPAT	OR	OFF	2019/05/17 12:02
S4	43	S2 and (copy\$3 near5 file\$1) and (receiv\$3 near5 file\$1)	USPAT	OR	OFF	2019/05/17 12:03
S5	10	S2 and (copy\$3 near5 file\$1) and (receiv\$3 near5 file\$1) and (modify\$3 near5 file\$1)	USPAT	OR	OFF	2019/05/17 12:04
S8	53	S7 and (copy\$3 near5 file\$1)	USPAT	OR	OFF	2019/05/17 14:15
S9	43	S7 and (copy\$3 near5 file\$1) and (receiv\$3 near5 file\$1)	USPAT	OR	OFF	2019/05/17 14:15
S12	33	(file\$1 and version\$1).ti. and @py<="2007"	USPAT	OR	OFF	2019/05/17 14:18
S13	3	S12 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	2019/05/17 14:20
S15	51	S14 and (file\$1 near5 metadata)	USPAT	OR	OFF	2019/05/17 14:49

EAST Search History (Prior Art)

S16	12	<p>S15 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</p>	USPAT	OR	OFF	2019/05/17 14:50
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S17	9	<p>S15 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</p>	USPAT	OR	OFF	2019/05/17 14:50
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EAST Search History (Prior Art)

S18	9	<p>S15 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	2019/05/17 14:51
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EAST Search History (Prior Art)

S19	5	<p>S15 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 </p>	USPAT	OR	OFF	2019/05/17 14:51
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EAST Search History (Prior Art)

S20	4	S15 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	2019/05/17 14:51
S22	22	(document\$1 and version\$1 and copy).ab. and @py<="2007"	USPAT	OR	OFF	2019/05/17 15:32
S23	21	(version\$1 and document\$1).ti. and @py<="2007"	USPAT	OR	OFF	2019/05/17 15:37
S24	1	"10289607".pn.	USPAT	OR	OFF	2019/05/17 17:55
S29	10	S26 and (copy\$3 near5 file\$1) and (receiv\$3 near5 file\$1) and (modify\$3 near5 file\$1)	USPAT	OR	OFF	2020/03/03 14:19
S34	10	S31 and (copy\$3 near5 file\$1) and (receiv\$3 near5 file\$1) and (modify\$3 near5 file\$1)	USPAT	OR	OFF	2020/03/03 14:19
S36	33	(file\$1 and version\$1).ti. and @py<="2007"	USPAT	OR	OFF	2020/03/03 14:19

EAST Search History (Prior Art)

S37	3	<p>S36 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</p>	USPAT	OR	OFF	2020/03/03 14:19
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EAST Search History (Prior Art)

S43	5	<p>S39 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 </p>	USPAT	OR	OFF	2020/03/03 14:19
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EAST Search History (Prior Art)

S44	4	S39 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	2020/03/03 14:19
S47	21	(version\$1 and document\$1).ti. and @py<="2007"	USPAT	OR	OFF	2020/03/03 14:19

EAST Search History (Prior Art)

S51	13	<p>S35 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	2020/03/03 14:32
S52	10	<p>S35 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	2020/03/03 14:33

EAST Search History (Prior Art)

S53	4	S35 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
S54	39	S35 and (copy\$3 near5 file\$1) and (receiv\$3 near5 file\$1)	USPAT	OR	OFF	2020/03/03 15:13
S55	14	S35 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)

S56	1	S35 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
S57	33	(file\$1 and version\$1).ti. and @py<="2007"	USPAT	OR	OFF	2020/03/03 15:53

EAST Search History (Prior Art)

S58	2	<p>S57 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)</p>	USPAT	OR	OFF	2020/03/03 15:57
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EAST Search History (Prior Art)

S59	2	S57 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
S60	2	(file\$1 and PRIORIT\$3).ti. and @py<="2007"	USPAT	OR	OFF	2020/03/18 11:42
S61	12	"5440737".UREF. AND @PY<="2007"	USPAT	OR	OFF	2020/03/18 11:50
S65	11	"6823348".uref.	USPAT	OR	OFF	2020/03/18 12:09
S67	9	S66 and (file\$1 near5 version\$1)	USPAT	OR	OFF	2020/03/18 12:11
S69	2	(mobile and file\$1 and version\$1).ab. and @py<="2007"	USPAT	OR	OFF	2020/03/18 12:15

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	0509068	

**INFORMATION DISCLOSURE STATEMENT
BY APPLICANT**

Date: January 23, 2020

Page **1** of **10**

Inventor(s): Michael R. MANZANO

Appln. No.: New

Filing Date: January 23, 2020

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	
					Enclosed	No	Enclose	No
PR								

OTHER (Including in this order Author, Title, Periodical Name, Date, Pertinent Pages, etc.)

QR				
RR				
SR				
TR				

Examiner /Srirama Channavajjala/ Date Considered: 03/18/2020

*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)		ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /S.C./	
To: U.S. Department of Commerce		Atty.	M#
(PW FORM PAT-1449)		Dkt. No.	
Patent and Trademark Office			
		023027	0509068
		Inventor(s): Michael R. MANZANO	
		Appln. No.: New	
		Filing Date: January 23, 2020	
Date: January 23, 2020		Page 2 of 10	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.			
YR	7,269,433	09/2007	VARGAS et al.			
ZR	7,290,244	10/2007	PECK et al.			
AAF	7,340,534	03/2008	CAMERON et al.			
BBF	7,398,327	07/2008	LEE			
CCP	7,415,615	08/2008	SKYGEBJER			
DDP	7,457,631	11/2008	YACH et al.			
EEF	7,467,353	12/2008	KURLANDER et al.			
FFR	7,483,925	01/2009	KOSKIMIES et al.			
GGI	7,526,575	04/2009	RABBERS et al.			
HHR	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	Enclose	No
JJR								

OTHER (Including in this order Author, Title, Periodical Name, Date, Pertinent Pages, etc.)

KKF			
LLR			
MM			
NNF			

Examiner /Srirama Channavajjala/ Date Considered: 03/18/2020

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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	0509068	

**INFORMATION DISCLOSURE STATEMENT
BY APPLICANT**

Date: January 23, 2020

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Inventor(s): Michael R. MANZANO

Appln. No.: New

Filing Date: January 23, 2020

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)
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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	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.)

EE						
FF						
GG						
HH						

Examiner /Srirama Channavajjala/

Date Considered: 03/18/2020

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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	0509068	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT		Inventor(s): Michael R. MANZANO		
		Appln. No.: New		
		Filing Date: January 23, 2020		
		Date: January 23, 2020		Page 4 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)
IIIR	2003/0038842	02/2003	PECK et al.			
JJJJ	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.			
NNN	2005/0220080	10/2005	RONKAINEN et al.			
OOO	2006/0058907	03/2006	SUDERMAN			
PPP	2006/0189348	08/2006	MONTULLI et al.			
QQQ	2007/0014314	01/2007	O'NEIL			
RRR	2007/0191057	08/2007	KAMADA			
SSS	2007/0238440	10/2007	SENGUPTA et al.			
TTT	2008/0005280	01/2008	ADAMS			
UUU	2008/0086494	04/2008	HELLER et al.			
VVV	2008/0168526	07/2008	ROBBIN et al.			
WWW	2008/0288578	11/2008	SILFVERBERG			
XXX	2009/0063711	03/2009	FINKELESTEIN			

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.)

ZZZ			
AAA			
BBC			
CCG			

Examiner /Srirama Channavajjala/ Date Considered: 03/18/2020

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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	0509068	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT			
Date: January 23, 2020	Page 5 of 10	Inventor(s): Michael R. MANZANO	
Appln. No.: New			
Filing Date: January 23, 2020			
		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
	20150154231 89		5915253 77			
	20050114658 88		5937406 77			
	5771354 87		5991746 77			
	5812398 87		6005569 77			
	5901228 87		6011758 77			
	6202199 87		6029153 77			
	6286047 87		6047060 77			
	6327579 87		6108004 77			
	6389541 87		6119051 77			
	6411943 87		6122631 77			
	6460163 87		6208338 77			
	7444374 87		6230173 77			
	8732250 87		6301660 77			
	9892273 87		6850950 77			
	20010054004 87		20020174010 77			

FORM PTO-1449 (modified) To: U.S. Department of Commerce (PW FORM PAT-1449) Patent and Trademark Office		Atty. Dkt. No.	M#	
		023027	0509068	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT		Inventor(s): Michael R. MANZANO		
		Appln. No.: New		
		Filing Date: January 23, 2020		
Date: January 23, 2020		Page 6 of 10	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)
PPP						
QQQ						
RRR						

FOREIGN PATENT DOCUMENTS

	Document Number	Date MM/YYYY	Country	Inventor Name	English Abstract		Translation Readily Available	
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	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 Channavajala/ Date Considered: 03/18/2020

*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) Patent and Trademark Office	Atty. Dkt. No.	M#	
	023027	0509068	

**INFORMATION DISCLOSURE STATEMENT
BY APPLICANT**

Date: January 23, 2020

Page **7** of **10**

Inventor(s): Michael R. MANZANO

Appln. No.: New

Filing Date: January 23, 2020

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)
DDI						

FOREIGN PATENT DOCUMENTS

	Document Number	Date MM/YYYY	Country	Inventor Name	English Abstract		Translation Readily Available	
					Enclosed	No	Enclose	No
EEE								

OTHER (Including in this order Author, Title, Periodical Name, Date, Pertinent Pages, etc.)

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.			
IIIIIP	FolderShare; Your Files Anywhere; < https://web.archive.org/web/20031001071631/http://foldershare.com:80/ >; October 1, 2003.			
JJJJ	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.			
MM	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.			
OO	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 Channavajjala/** Date Considered: **03/18/2020**

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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#	Client Ref.
	023027	0509068	

**INFORMATION DISCLOSURE STATEMENT
BY APPLICANT**

Date: January 23, 2020

Page **8** of **10**

Inventor(s): Michael R. MANZANO

Appln. No.: New

Filing Date: January 23, 2020

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)
PPP	2006/0074985	04/2006	WOLFISH			
QQQ	2006/0143129	06/2006	HOLM			
RRR	2004/0133629	07/2004	REYNOLDS			
SSS	2002/0035697	03/2002	MCCURDY			
TTT	2003/0028514	02/2003	LORD			
UUU	2003/0078946	04/2003	COSTELLO			
VVV	2007/0180084	08/2007	MOHANTY			
WWW	9,143,561	09/2015	MANZANO			
XXX	2007/0016629	01/2007	REINSCH			
YYY	5,806,078	09/1998	HUG			
ZZZ	2007/0027936	02/2007	STAKUTIS			
AAA	2008/0005114	01/2008	LI			
BBB	5,909,581	06/1999	PARK			
CCC	2004/0158817	08/2004	OKACHI			
DDD	2009/0013009	01/2009	NAKAYAMA			
EEE	2006/0168118	07/2006	GODLIN			
FFF	2006/0129627	06/2006	PHILLIPS			

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	Document Number	Date MM/YYYY	Country	Inventor Name	English Abstract	Translation Readily Available
					Enclosed	No
GGG	WO 98/56149 A1	12/1998	WO	GENELL		
HHH	WO 2007/047302 A2	04/2007	WO	CHEN et al.		
IIIII	EP 1 130 511 A2	09/2001	EP	MULTER		

OTHER (Including in this order Author, Title, Periodical Name, Date, Pertinent Pages, etc.)

JJJ			
KKK			
LLL			
MM			

Examiner /Srirama Channavajjala/ Date Considered: 03/18/2020

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**INFORMATION DISCLOSURE STATEMENT
BY APPLICANT**

Date: January 23, 2020

Page **9** of **10**

Inventor(s): Michael R. MANZANO

Appln. No.: New

Filing Date: January 23, 2020

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)
NNN	7,325,038	01/2008	Wang			
OOO	7,260,646	08/2007	Stefanik et al.			
PPP	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.			
JJJJ	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	
				Enclosed	No	Enclose	No

OTHER (Including in this order Author, Title, Periodical Name, Date, Pertinent Pages, etc.)

Examiner /Srirama Channavajjala/ Date Considered: 03/18/2020

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**INFORMATION DISCLOSURE STATEMENT
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Page **10** of **10**

Inventor(s): Michael R. MANZANO

Appln. No.: New

Filing Date: January 23, 2020

Examiner: Unassigned Group Art Unit: Unassigned

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MM	8,565,729	10/2013	MOSELER et al.			
NN	7,415,588	08/2008	HONG et al.			
OO	2009/0282050	11/2009	THOMAS et al.			
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			
WW	2009/0024922	01/2009	MARKOWITZ et al.			
XX	2003/0115547	06/2003	OHWADA			
YY	6,088,693	07/2000	VAN HUBEN			
ZZ	7,058,667	06/2006	GOLDICK			
AA	7,051,364	05/2006	TACKMAN			
BB	6,826,626	11/2004	MCMANUS			
CC	7,263,493	08/2007	PROVOST			
DD	7,162,501	01/2007	KUPKOVA			
EE	2002/0194382	12/2002	KAUSIK			
FF	2005/0210371	09/2005	POLLOCK			
GG	7,149,760	12/2006	BREUER			

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	Document Number	Date MM/YYYY	Country	Inventor Name	English Abstract		Translation Readily Available	
					Enclosed	No	Enclose	No
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.			
JJJJ	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/	Date Considered:	03/18/2020
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*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.

To: docket_ip@pillsburylaw.com,,
From: PAIR_eOfficeAction@uspto.gov
Cc: PAIR_eOfficeAction@uspto.gov
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Mar 23, 2020 03:46:27 AM

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Application	Document	Mailroom Date	Attorney Docket No.
16750435	OA.FAI.PRELM	03/23/2020	023027-0509068
	892	03/23/2020	023027-0509068
	OA.APPENDIX	03/23/2020	023027-0509068
	1449	03/23/2020	023027-0509068

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USPTO Automated Interview Request (AIR)

Apr 13 2020

This paper requesting to schedule and/or conduct an interview is appropriate because:

This submission is requested to be accepted as an authorization for this interview to communicate via the internet. Recognizing that Internet communications are not secure, I hereby authorize the USPTO to communicate with the undersigned concerning scheduling of the interview via video conference, instant messaging, or electronic mail, and to conduct the interview in accordance with office practice including video conferencing.

Name(s):
Ngai Zhang

S-signature:
/Ngai Zhang/

Registration Number:
65473

U.S. Application Number:
16750435

Confirmation Number:
2793

E-mail Address:
ngai.zhang@pillsburylaw.com

Phone Number:
+1 7037707532

Proposed Time of Interview:
4-28-2020 2:00 PM ET

Prefered Interview Type:
Telephonic

I am the applicant or applicant's representative for this application.

Topic for Discussion:
Agenda to be sent separately via email



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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
16/750,435	01/23/2020	Michael R. MANZANO	023027-0509068	2793
909	7590	04/20/2020	EXAMINER	
Pillsbury Winthrop Shaw Pittman, LLP PO Box 10500 McLean, VA 22102			CHANNAVAJJALA, SRIRAMA T	
			ART UNIT	PAPER NUMBER
			2158	
			NOTIFICATION DATE	DELIVERY MODE
			04/20/2020	ELECTRONIC

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

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

docket_ip@pillsburylaw.com

Applicant-Initiated Interview Summary	Application No. 16/750,435	Applicant(s) MANZANO, Michael R.	
	Examiner Srirama T Channavajjala	Art Unit 2158	AIA (FITF) Status No

All participants (applicant, applicants representative, PTO personnel):

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

(2) Ngai Zhang. (4) _____.

Date of Interview: 15 April 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: claim 1,4.

Identification of prior art discussed: McVoy US 20060026567 and US20030074376.

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...)

See Continuation Sheet.

Applicant recordation instructions: The formal written reply to the last Office action must include the substance of the interview. (See MPEP section 713.04). If a reply to the last Office action has already been filed, applicant is given a non-extendable period of the longer of one month or thirty days from this interview date, or the mailing date of this interview summary form, whichever is later, to file a statement of the substance of the 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 2158	
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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:

Per interview agenda, discussed claim 1 limitation "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:

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 at the second client device based on the first metadata, and

the graphical availability indication is proximate a file icon representing the first file on a user interface of the second client device, and

wherein the graphical availability indication indicates that the updated version of the first file generated from the user modifying the content of the first file is available to be downloaded from the server system to the second client device."

Discussed claim 4 limitations

Discussed instant application specification para 0043-0047

Discussed double patent rejection.

Applicant may consider filing response to the office action and no agreement reached

Channavajjala, Srirama

From: Zhang, Ngai <ngai.zhang@pillsburylaw.com>
Sent: Wednesday, April 15, 2020 10:29 AM
To: Channavajjala, Srirama
Cc: Clarke, Sarah L.
Subject: 16/750,435 (023027-0509068) Agenda for 2020-04-15 Examiner Interview

Hi Examiner Channavajjala –

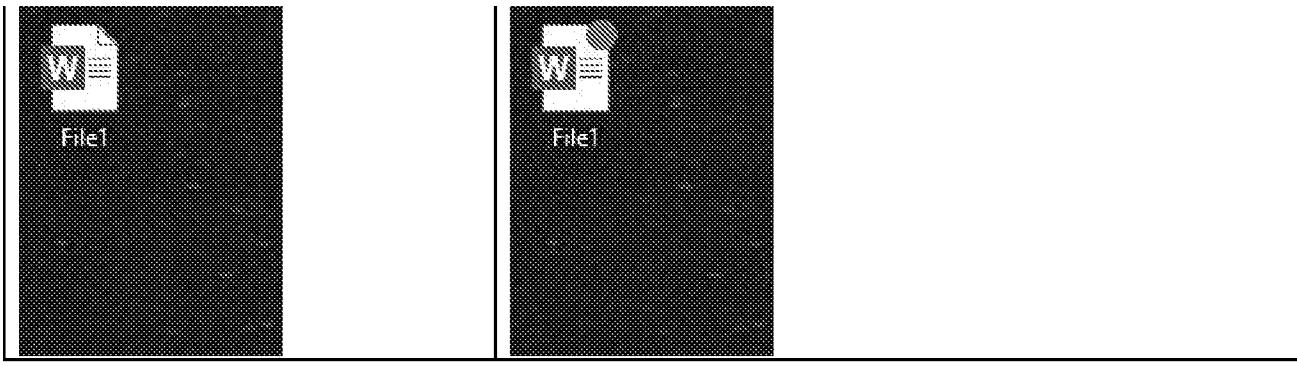
During today's interview, we would like to discuss the claimed invention and the cited references, your interpretations of the cited references and the claim language, and your thoughts on how we can expedite prosecution of this case. If you have any questions prior to our interview, please feel free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

In particular, we do not understand how the cited references are being interpreted with respect to the claimed limitations. For example, although Benayoun describes assigning priorities to file versions in a directory, it does not appear to describe assigning different priorities to a file and the metadata associated with the file. Further, while McVoy discusses the sending of metadata related to file versions, it appears to describe transferring both metadata and version deltas, in a patch, at the same time when a user at a first client device requests the patch from a second client device. Given the foregoing, we would like to understand what aspects of the cited references you believe teaches the following limitations of claim 1:

- 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:
 - 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 at the second client device based on the first metadata, and
 - the graphical availability indication is proximate a file icon representing the first file on a user interface of the second client device, and
- wherein the graphical availability indication indicates that the updated version of the first file generated from the user modifying the content of the first file is available to be downloaded from the server system to the second client device.

To help facilitate the interview, we plan to use the following two example scenarios below to explain the foregoing claim limitations.

“Second client device” screen at time t0 (graphical availability indication is not proximate the file icon)	“Second client device” screen at time t1 (graphical availability indication, e.g., red dot, is presented proximate the file icon)
The first file “File1” at the first client device has not yet been modified.	After content of the first file (“File1”) on the first client device is modified, and the metadata associated with the updated version of the first file is transferred from the server system to the second client device, but <u>before the copy of the first file (i.e., the updated version) is transferred to the second client device.</u>



Best,
Ngai

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To: docket_ip@pillsburylaw.com,,
From: PAIR_eOfficeAction@uspto.gov
Cc: PAIR_eOfficeAction@uspto.gov
Subject: Private PAIR Correspondence Notification for Customer Number 909

Apr 20, 2020 03:49:14 AM

Dear PAIR Customer:

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

The following USPTO patent application(s) associated with your Customer Number, 909 , have new outgoing correspondence. This correspondence is now available for viewing in Private PAIR.

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Application	Document	Mailroom Date	Attorney Docket No.
16750435	INTV.SUM.APP	04/20/2020	023027-0509068
	OA.APPENDIX	04/20/2020	023027-0509068

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Monday - Friday 6:00 a.m. to 12:00 a.m.

Thank you for prompt attention to this notice,

UNITED STATES PATENT AND TRADEMARK OFFICE
PATENT APPLICATION INFORMATION RETRIEVAL SYSTEM

IN THE UNITED STATES PATENT & TRADEMARK OFFICE

First Inventor: Michael R. Manzano)	Attorney Docket No.: 023027-0509068
Serial No.: 16/750,435)	Confirmation No.: 2793
Filing Date: January 23, 2020)	Examiner: Srirama T. Channavajjala
)
	Art Unit: 2157
For: PRE-FILE-TRANSFER AVAILABILITY INDICATION BASED ON PRIORITIZED METADATA	

**RESPONSE TO PRE-INTERVIEW COMMUNICATION
MAILED MARCH 23, 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 April 15, 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 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 graphical availability indication of the updated version of the first file to be presented at the second client device based on the first metadata, and

(ii) the graphical availability indication is proximate a file icon representing the first file on a user interface of the second client device, and

wherein the graphical availability indication indicates that the updated version of the first file generated from the user modifying the content of the first file is available to be downloaded from the server system to the second client device.

Section 103 Rejection

Applicant respectfully traverses the Section 103 rejections at least because U.S. Patent Application No. 2003/00743376 to Benayoun (“Benayoun”) in view of U.S. Patent Application No. 2006/0026567 to McVoy (“McVoy”) fails to teach or suggest the following limitations of claim 1 (one or more of which are similarly recited by the other independent claims):

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;

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 graphical availability indication of the updated version of the first file to be presented at the second client device based on the first metadata, and

(ii) the graphical availability indication is proximate a file icon representing the first file on a user interface of the second client device, and

wherein the graphical availability indication indicates that the updated

version of the first file generated from the user modifying the content of the first file is available to be downloaded from the server system to the second client device.

For example, the Pre-Interview Communication relies on paragraphs 19-31 of Benayoun for allegedly teaching nearly all of the foregoing claim limitations (except for “first metadata associated with the updated version”), Benayoun (at best) describes assigning a list of priorities to different versions of a file—there is no indication in Benayoun regarding the assignment of different priorities to a file and the metadata associated the files, much less the claim limitations of “automatically transfer, based on the first priority [assigned to the first metadata] being greater than the second priority [assigned to the copy of the first file], 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” or the other limitations related to the availability indication.

McVoy, which is merely relied upon for allegedly teaching “metadata associated with updated version” (*see* Pre-Interview Communication), fails to overcome the foregoing deficiencies of Benayoun. The Pre-Interview Communication does not allege otherwise.

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,

Date: April 23, 2020

PILLSBURY WINTHROP SHAW PITTMAN LLP

By: /Ngai B. Zhang/
Ngai B. Zhang
Registration No. 65,473

Customer No. 00909

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McLean, Virginia 22102
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Main: 703.770.7900
Fax: 703.770.7901

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;

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 graphical availability indication of the updated version of the first file to be presented at the second client device based on the first metadata, and

(ii) the graphical availability indication is presented proximate a file icon representing the first file on a user interface of the second client device, and

wherein the graphical availability indication indicates that the updated version of the first file generated from the user modifying the content of the first file is available to be downloaded from the server system to the second client device; and

subsequent to the transfer of the first metadata to the second client device, transfer the copy of the first file to the second client device.

2. **(Original)** 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. **(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 file representation of the first file presented on the user interface of the second client device to be updated 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 graphical availability indication of the updated version of the first file to be presented at the second client device based on the first metadata, and
- (ii) the graphical availability indication is proximate a graphical file representation of the first file on a user interface of the second client device, and wherein the graphical availability indication indicates that the updated version of the first file generated from the user modifying the content of the first file is available to be downloaded from the server system to the second client device; and
- subsequent to the transfer of the first metadata to the second client device, transferring the copy of the first file to the second client device.
10. **(Original)** 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. **(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 file representation of the first file presented on the user interface of the second client device to be updated 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 an availability indication of the updated version of the first file to be presented at the second client device based on the first metadata, and

(ii) the availability indication is presented proximate a graphical file representation of the first file on a user interface of the second client device, and wherein the availability indication indicates that the updated version of the first file generated from the user modifying the content of the first file is available to be downloaded from the server system to the second client device; and subsequent to the transfer of the first metadata to the second client device, transferring the copy of the first file to the second client device.

16. **(Original)** 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. **(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 a file representation of the first file presented on the user interface of the second client device to be updated 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.

Electronic Acknowledgement Receipt

EFS ID:	39251197
Application Number:	16750435
International Application Number:	
Confirmation Number:	2793
Title of Invention:	PRE-FILE-TRANSFER AVAILABILITY INDICATION BASED ON PRIORITY METADATA
First Named Inventor/Applicant Name:	Michael R. MANZANO
Customer Number:	909
Filer:	Ngai Bing Zhang
Filer Authorized By:	
Attorney Docket Number:	023027-0509068
Receipt Date:	23-APR-2020
Filing Date:	23-JAN-2020
Time Stamp:	21:05:00
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	ResponseToPreInterview.pdf	191438 5f0cd9ece27458c10f5ee380aad7f62fe71b5099	no	14

Warnings:

Information:	Total Files Size (in bytes):	191438
<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></p>		
<p>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></p>		
<p>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></p>		
<p>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>		

PLUS Search Results for S/N 16750435, Searched Mon Apr 27 10:42:32 EDT 2020

The Patent Linguistics Utility System (PLUS) is a USPTO automated search system for U.S. Patents from 1971 to the present PLUS is a query-by-example search system which produces a list of patents that are most closely related linguistically to the application searched. This search was prepared by the staff of the Scientific and Technical Information Center, SIRA.

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
16/750,435	01/23/2020	Michael R. MANZANO	023027-0509068	2793
909	7590	05/15/2020	EXAMINER	
Pillsbury Winthrop Shaw Pittman, LLP			CHANNAVAJJALA, SRIRAMA T	
PO Box 10500				
McLean, VA 22102				
			ART UNIT	PAPER NUMBER
			2158	
			NOTIFICATION DATE	DELIVERY MODE
			05/15/2020	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 Office Action Summary	Application No. 16/750,435	Applicant(s) MANZANO, Michael R.	
	Examiner Srirama T Channavajjala	Art Unit 2158	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 **TWO MONTHS** FROM THE MAILING OR NOTIFICATION DATE OF THIS COMMUNICATION.

This time period for reply is extendable under 37 CFR 1.136(a) for only TWO additional MONTHS.

Applicant's request to not have a first-action interview is acknowledged (or the time period for reply set forth in the Pre-Interview Communication has expired and the Office did not receive any reply).

Status

- 1) Responsive to communication(s) filed on 4/23/2020 and interview conducted on 20 April 2020.
 - A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on _____.
- 2) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 3) Claim(s) 1-20 is/are pending in the application.
 - 3a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 4) Claim(s) _____ is/are allowed.
- 5) Claim(s) 1-20 is/are rejected.
- 6) Claim(s) _____ is/are objected to.
- 7) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 8) The specification is objected to by the Examiner.
- 9) 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

- 10) 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: BORIS GORNEY

Supervisor's Telephone Number: 5712705626

Attachment(s)

- | | |
|---|--|
| <ol style="list-style-type: none"> 1) <input type="checkbox"/> Notice of References Cited (PTO-892) 2) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08a and/or PTO/SB/08b)
Paper No(s)/Mail Date _____. | <ol style="list-style-type: none"> 3) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____. 4) <input type="checkbox"/> Other: _____. |
|---|--|

First Action Interview Office Action Summary	Application No. 16/750,435	Applicant(s) MANZANO, Michael R.	
	Examiner Srirama T Channavajjala	Art Unit 2158	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	9,143,56110,067, 942;;	double patent	See attached sheet - nonstatutory double patenting rejection and provisional non statutory double patenting rejection.
1	1,9 and 15	10,289,607;16/ 361,6411;	double paten	See attached sheet - nonstatutory double patenting rejection and provisional non statutory double patenting rejection.
1	9 and 15	16/750,399	double paten	See attached sheet - nonstatutory double patenting rejection and provisional non statutory double patenting rejection.
2	1-20	20030074376 20060026567	103	Claims 1,9,15, Benayoun disclosed "A server system comprising one or more processors (0017-0018);"receive over a network (0017-0018) a copy of a first file.....(fig 2,) to the user modifying a content....first file"(0018-0020); "receive....updated version...first file"(0021-0023);
2	1,9,15	20030074376 20060026567	103	"automatically transfer....priority...over network tois transferred tocopy of the first file.... device (0021,0023-0024,0029), "wherein, before the copy...(i) transfer of ..indication of the updated version.....(0019-0020,0031); (ii) the graphical....user interface....(0030-0031)

Expanded Discussion/Commentary

2	Wherein theupdated version of the first file....(0023-0024). It is however, noted that Benayoun does not disclose"first metadaa associated with updated version.... Customer. On the other hand, McVoy disclosed "first metadaa associated with updated version.... (0030-0031, fig 4a-4b ,fig 7, 0042-0043). It would have been obvious before the effective filing date of the applicant's claimed invention to incorporate distribution of data/metadata in a version control system of McVoy into file manager for storing several versions of files with assigned priority files of Benayounn because that would have allowed users of Benayounn to select file(s) associated with a priority list and respective version(s)
2,	Benayounn (0029-0030),further allows to track modified file with respect to file version, date, file path (metadata) (McVoy (fig 4a-4b. 0031-0033) .fig 1-assigned file priority. As to claim 2,10,16,Benayounn disclosed "wherein at least one ofcomprises a priority assignment....associated to the file.....priority assignment configuration(assigned file priority attribute). On the other hand, McVoy disclosed metadata associated with the files"(Abstract, 0028)
3	As to claim 3,11,17, McVoy disclosed "wherein....file is transferred to....first metadata.....updated on the first metadata" (0029-0031) As to claim 4,12,18,Benayoun disclosed ""receiving...file from....updated version of the second file....modifying the content of the second file" (0021-0024,fig 2),"determine that the server system....user" (fig 2-3 ,0019);"automatically transferolder version of the second file....(0008,0010) (i)determining that the server.....(0019-0020);(ii) receiving the copy....client device"(0030-0031)
4	As to claim 5,13,19, Benayoun disclosed "wherein the copy.....device response to (i)a push request of the first client device(fig 2-3,0033-0034). (ii) the user modifying the content....(0010,0023). Claims 6-8,14,20 are rejected further in view of US2007/0180084. As to claim 6, Benayoun disclosed "wherein the copy of the first file....runtime environment" (0008,0010). However, both Benayoun,McVoy do not disclose "mobile agent object". On the other hand, Mohenty disclosed "mobile agent object" (0025-0026), it would have been obvious
5	To combine Mohenty with Benayoun,McVoy because that would have allowed users of Benayoun,McVoy associate mobile agent objects with version and priority status.
	As to Claim 7, Mohenty disclosed "wherein...first mobile object, and wherein.....object at the server system" (fig 1A-1C,0026,0028)
9	As to Claim 8, Mohenty disclosed "wherein...first mobile object, configured to....store the copy....server system" (0052-0053) Claims 14,20 are rejected in the analysis of claims 6-8 above and claims 14,20 are rejected on that basis

DATE:
12 May 2020

/Srirama Channavajjala/
Primary Examiner, Art Unit 215

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 2/25/2020.*

DETAILED ACTION

1. Claims 1-20 are pending in this application.
2. Examiner acknowledges applicant's FAI response filed on 4/23/2020.

Drawings

3. The Drawings filed on 1/23/2020 are acceptable for examination purpose.

Information Disclosure Statement

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

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. 16/750,435 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: 16/750,435	US Patent No. 9,143,561
Claim 1,9,15 A system comprising: <u>a server system comprising one or more processors programmed with computer program instructions that, when executed, cause the server system to:</u> <u>receive, over a network, a copy of a first file from a first client device</u>	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: <u>receive from a second application executable on the second electronic</u>

<p><u>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><u>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</u> greater than a second priority assigned to the copy of the first file;</p> <p><u>automatically transfer, based on the first priority being greater than the second priority, the first metadata</u> over a network</p>	<p>device a copy of a first electronic file automatically 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 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 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 <u>automatically transfer the modified second electronic file copy</u> to the second electronic device to replace an older</p>
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<p>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 <u>first file is transferred</u> to the second client device, wherein, before the copy of the first file is <u>transferred</u> to the second client device:</p> <p>(i) 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 at the second client device based on the first metadata, and</p> <p>(ii) the graphical availability indication is presented proximate a file icon representing the first file on a user interface of the second client device, and</p> <p>wherein the graphical availability indication indicates that the updated version of the first file generated from the</p>	<p>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 first electronic file</u>.</p>
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user modifying the content of the first file is available to be downloaded from the server system to the second client device; subsequent to the transfer of the first metadata to the second client device, transfer the copy of the first file to 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 **16/750,435** 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. 16/750,435 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: 16/750,435	US Patent No. 10,067,942
Claim 1,9,15 A system comprising: <u>a server system comprising one or more processors programmed with computer program instructions that, when executed, cause the server system to:</u> <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>	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: <u>receive</u> from a second application executable on the second electronic device a copy of a first electronic file <u>automatically transferred</u> 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><u>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;</u></p> <p><u>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,</u></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 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;</u></p> <p>wherein the second application automatically transfers the copy of the</p>
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<p>(i) 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 at the second client device based on the first metadata, and</p> <p>(ii) the graphical availability indication is presented proximate a file icon representing the first file on a user interface of the second client device, and</p> <p>wherein the graphical availability indication indicates that the updated version of the first file generated from the user modifying the content of the first file is available to be downloaded from the server system to the second client device subsequent to the transfer of the first metadata to the second client device, transfer the copy of the first file to 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 **16/750,435** 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.

8. Claims 1-20 of US Application No. 16/750,435 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: 16/750,435	US Patent No. 10,289,607
Claim 1,9,15 A system comprising: <u>a server system comprising one or more processors programmed with computer program instructions that, when executed, cause the server system to:</u> <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</u>	Claim 1,12, A system, comprising: <u>a server system comprising one or more processors programmed with computer program instructions that, when executed, cause the server system to:</u> <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</u>

<p><u>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><u>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;</u></p> <p><u>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</u></p>	<p><u>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, from the first client device, first metadata associated with the 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;</u></p> <p><u>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></p> <p><u>automatically transfer the first metadata 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</u></p>
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<p>the user such that the first metadata is transferred to the second client device before the copy of the <u>first file is transferred</u> to the second client device, wherein, before the copy of the first file is transferred to the second client device:</p> <p>(i) 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 at the second client device based on the first metadata, and</p> <p>(ii) the graphical availability indication is presented proximate a file icon representing the first file on a user interface of the second client device, and</p> <p>wherein the graphical availability indication indicates that the updated version of the first file generated from the user modifying the content of the first file</p>	<p>client device prior to the copy of the <u>first file being transferred</u> 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 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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is available to be downloaded from the server system to the second client device subsequent to the transfer of the first metadata to the second client device, transfer the copy of the first file to 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 1-18 of U.S. Patent No. **10,289,607** to arrive at the claims 1-20 of the instant application **16/750,435** 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 1,9,15 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: 16/750,435	Co-pending application: 16/361,641
Claim 1,9,15 A system comprising: <u>a server system comprising one or more processors programmed with computer program instructions that, when executed, cause the server system to:</u> <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</u>	Claim 1,12,18 A system comprising: <u>a server system comprising one or more processors programmed with computer program instructions that, when executed, cause the server system to:</u> <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</u>

<p><u>being an updated version of the first file</u> <u>that is generated from the user modifying</u> <u>the content of the first file;</u></p> <p><u>receive, over a network, from the first</u> <u>client device, first metadata associated</u> <u>with the updated version of the first file</u> <u>that is generated from the user modifying</u> <u>the content of the first file, the first</u> <u>metadata being assigned a first priority</u> greater than a second priority assigned to the copy of the first file;</p> <p><u>automatically transfer, based on the</u> first priority being greater than the second priority, <u>the 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 <u>first file</u> is <u>transferred</u> to the second client device, wherein, before the copy of the first file is transferred to the second client</p>	<p>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;</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, over a</u> network, the copy of the first file to the second client device associated with the user to <u>replace an older version of</u> <u>the first file</u> stored on the second client 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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<p>device:</p> <p>(i) 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 at the second client device based on the first metadata, and</p> <p>(ii) the graphical availability indication is presented proximate a file icon representing the first file on a user interface of the second client device, and</p> <p>wherein the graphical availability indication indicates that the updated version of the first file generated from the user modifying the content of the first file is available to be downloaded from the server system to the second client device subsequent to the transfer of the first metadata to the second client device, transfer</p>	
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the copy of the first file to 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 1-20 of U.S. instant application **16/750,435** 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.

Claim 1,9,15 provisionally rejected on the ground of nonstatutory double patenting as being unpatentable over claim 1,12,18 of copending Application No. **16/750,399** (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: 16/750,435	Co-pending application: 16/750,399
Claim 1,9,15 A system comprising: <u>a server system comprising one or more processors programmed with</u>	Claim 1,12,18 A system comprising: a server system comprising one or more processors programmed with computer

<p><u>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><u>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;</u></p>	<p>program instructions that, when executed, cause the server system to:</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>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>
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<p><u>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:</u></p> <p>(i) 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 at the second client device based on the first metadata, and</p> <p>(ii) the graphical availability indication is presented proximate a file icon representing the first file on a user interface of the second client device, and</p>	<p><u>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 device, responsive to</u></p> <p>(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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wherein the graphical availability indication indicates that the updated version of the first file generated from the user modifying the content of the first file is available to be downloaded from the server system to the second client device subsequent to the transfer of the first metadata to the second client device, transfer the copy of the first file to 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 1-20 of U.S. instant application **16/750,435** to arrive at the claims 1-20 of the co-pending 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.

Claim Rejections - 35 USC § 103

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

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

The factual inquiries set forth in *Graham v. John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under pre-AIA 35 U.S.C. 103(a) are summarized as follows:

1. Determining the scope and contents of the prior art.
2. Ascertaining the differences between the prior art and the claims at issue.
3. Resolving the level of ordinary skill in the pertinent art.
4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

Claim 1-20 are rejected under pre-AIA 35 U.S.C. 103(a) as being unpatentable over Benayoun et al., US Pub. 2003/0074376 published Apr,2003 in view of McVoy et al., US Pub. No. 2006/0026567 published Feb 2006

Examiner herewith incorporated FAI step-1 office action, further amended claims 1,9,15 may be rejected herewith:

As to the claims 1,9,15 (as amended 4/23/2020), McVoy disclosed the limitation "subsequent to the transfer of the first metadata to the second client device, transfer the copy of the first file to the second client device" (0032, 0044, fig 5, fig 8 – McVoy teaches creating list of files associated with metadata and replicate policy, sending the

files and checking if the file(s) versions in clone operation by replicating the existing repository)

Response to Arguments:

a) At page 2-3, examiner acknowledges applicant's remarks on double patent rejection, further applicant may further consider filing terminal disclaimer to overcome double patent rejection, subject to approval.

b) At page 2-4, claim 1, applicant argues the following:

Benayoun (at best) describes assigning a list of priorities to different versions of a file—there is no indication in Benayoun regarding the assignment of different priorities to a file and the metadata associated the files, much less the claim limitations of “automatically transfer, based on the first priority [assigned to the first metadata] being greater than the second priority [assigned to the copy of the first file], 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” or the other limitations related to the availability indication.

McVoy, which is merely relied upon for allegedly teaching “metadata associated with updated version” fails to overcome the foregoing deficiencies of Benayoun. The Pre-Interview Communication does not allege otherwise”

As to the above argument, as best understood by the examiner, Benayoun teaches file management particularly locating files, maintaining file versions (Abstract), the prior art of Benayoun also supports file identification and/or location of file(s)

defining various attributes including priority list for example as detailed in fig 1,

0021,0031), as best understood by the examiner, Benayoun's file attributes including file version, priority and like may corresponds to file metadata, the prior art of Benayoun suggests servers may be connected to several computers , it is also noted that file first version stored on a physical unit may be updated and/or transferred to other devices connected in an network environment (0019-0020,0024,0029,0031). It is however, noted that Benayoun does not disclose "metadata associated with updated version", although Benayoun specifically suggests file attributes including file priorities as detailed in fig 1. On the other hand, McVoy disclosed "metadata associated with updated version" (0030-0031,fig 4a-4b, 0042-0043, fig 7 – McVoy fig 4a-4b suggests defining file metadata, further McVoy also supports file metadata may be associated with a particular version of a file or file version as detailed in 0031. Therefore, it would have been obvious before the effective filing date of the applicant's claimed invention to incorporate distribution of data/metadata in a version control system of McVoy into file manager for storing several versions of files with assigned priority files of Benayoun because that would have allowed users of Benayoun to select file(s) associated with a priority list and respective version(s)

Examiner applies above arguments to claims 2-8,10-14,16-20 depends from claims 1,9,15.

Conclusion

The prior art made of record

- a. US Pub. No. 20030074376
- b. US Pub. No 20060026567
- c. US Pub. No 2007/0180084

Examiner's Note: Examiner has cited particular columns and line numbers in the references applied to the claims above for the convenience of the applicant. Although the specified citations are representative of the teachings of the art and are applied to specific limitations within the individual claim, other passages and figures may apply as well. It is respectfully requested from the applicant in preparing responses, to fully consider the references in entirety as potentially teaching all or part of the claimed invention, as well as the context of the passage as taught by the prior art or disclosed by the Examiner.

SEE MPEP 2141.02 [R-5] VI. PRIOR ART MUST BE CONSIDERED IN ITS ENTIRETY, INCLUDING DISCLOSURES THAT TEACH AWAY FROM THE CLAIMS:
A prior art reference must be considered in its entirety, i.e., as a whole, including portions that would lead away from the claimed invention. W.L. Gore & Associates, Inc. v. Garlock, Inc., 721 F.2d 1540, 220 USPQ 303 (Fed. Cir. 1983), cert. denied, 469 U.S. 851 (1984) In re Fulton, 391 F.3d 1195, 1201,73 USPQ2d 1141, 1146 (Fed. Cir. 2004).
>See also MPEP §2123.

In the case of amending the Claimed invention, Applicant is respectfully requested to indicate the portion(s) of the specification which dictate(s) the structure relied on for proper interpretation and also to verify and ascertain the metes and bounds of the claimed invention.

The prior art made of record, listed on form PTO-892, and not relied upon, if any, is considered pertinent to applicant's disclosure.

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, Gorney, Boris, can be reached on (571) 270- 5626. 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 2158

To: docket_ip@pillsburylaw.com,,
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Application	Document	Mailroom Date	Attorney Docket No.
16750435	OA.FAI.OPT.O	05/15/2020	023027-0509068
	OA.FAI	05/15/2020	023027-0509068
	OA.APPENDIX	05/15/2020	023027-0509068

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APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
16/750,435	01/23/2020	Michael R. MANZANO	023027-0509068

CONFIRMATION NO. 2793

909

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

PUBLICATION NOTICE



OC000000117166790

Title:PRE-FILE-TRANSFER AVAILABILITY INDICATION BASED ON PRIORITIZED METADATA

Publication No.US-2020-0159695-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.

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

To: docket_ip@pillsburylaw.com,,
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Cc: PAIR_eOfficeAction@uspto.gov
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May 22, 2020 03:46:46 AM

Dear PAIR Customer:

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Application	Document	Mailroom Date	Attorney Docket No.
16750435	NTC.PUB	05/22/2020	023027-0509068

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
16/750,435	01/23/2020	Michael R. MANZANO	023027-0509068	2793
909	7590	06/09/2020	EXAMINER	
Pillsbury Winthrop Shaw Pittman, LLP			CHANNAVAJJALA, SRIRAMA T	
PO Box 10500				
McLean, VA 22102				
			ART UNIT	PAPER NUMBER
			2158	
			NOTIFICATION DATE	DELIVERY MODE
			06/09/2020	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

Applicant-Initiated Interview Summary	Application No. 16/750,435	Applicant(s) MANZANO, Michael R.	
	Examiner Srirama T Channavajjala	Art Unit 2158	AIA (FITF) Status No

All participants (applicant, applicants representative, PTO personnel):

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

(2) Ngai Zhang. (4) _____.

Date of Interview: 04 June 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: 1-2 and 4.

Identification of prior art discussed: Benayoun.

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...)

See Continuation Sheet.

Applicant recordation instructions: The formal written reply to the last Office action must include the substance of the interview. (See MPEP section 713.04). If a reply to the last Office action has already been filed, applicant is given a non-extendable period of the longer of one month or thirty days from this interview date, or the mailing date of this interview summary form, whichever is later, to file a statement of the substance of the 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 2158	
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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: Per interview agenda, discussed "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:
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 at the second client device based on the first metadata, and
the graphical availability indication is proximate a file icon representing the first file on a user interface of the second client device, and
wherein the graphical availability indication indicates that the updated version of the first file generated from the user modifying the content of the first file is available to be downloaded from the server system to the second client device"

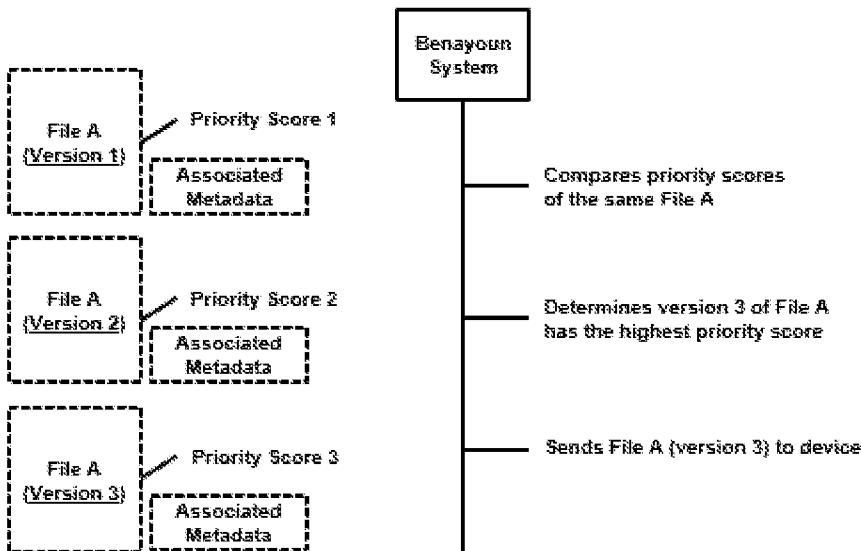
Discussed prior art of Benayoun

Applicant may further clarify claim language, no agreement reached

Channavajjala, Srirama

From: Zhang, Ngai <ngai.zhang@pillsburylaw.com>
Sent: Thursday, June 4, 2020 12:51 PM
To: Channavajjala, Srirama
Cc: Clarke, Sarah L.
Subject: 16/750,435 (023027-0509068) Examples for Today's Call

Hi Examiner Channavajjala – to help facilitate today's call, below is an example scenario with respect to the Benayoun system. As we understand it, Benayoun describes assigning priorities to different file versions/instances of the same file in a directory, as shown below. The Benayoun system then sends the version/instance of the file that has the highest priority.



From our review, we did not see where Benayoun describes the assignment of one priority (e.g., Priority Score 1) to a file and the assignment of a different priority (e.g., Priority Score 9) to the metadata associated with the file. That is, Benayoun does not describe a scenario similar to the following example scenario.



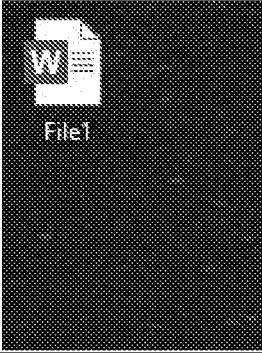
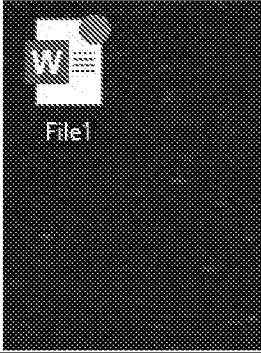
As discussed, with respect to McVoy, while it discusses the sending of metadata related to file versions, it appears to describe transferring both metadata and version deltas, in a patch, at the same time when a user at a first client device requests the patch from a second client device.

Moreover, there are no discussions in either reference about the specific presentation of the graphical availability indication caused by “the transfer of the first metadata to the second client device,” where the presentation occurs “before the copy of the first file is transferred to the second client device.” Given the foregoing, we believe the cited references fails to teach the following limitations of claim 1:

- 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:

- 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 at the second client device based on the first metadata, and
- the graphical availability indication is presented proximate a file icon representing the first file on a user interface of the second client device, and
- wherein the graphical availability indication indicates that the updated version of the first file generated from the user modifying the content of the first file is available to be downloaded from the server system to the second client device.

In addition, for your convenience, below are the two example scenarios I previously sent to the extent it will be helpful for the call.

"Second client device" screen at time t0 (graphical availability indication is not presented proximate the file icon)	"Second client device" screen at time t1 (graphical availability indication, e.g., red dot, is presented proximate the file icon)
The first file "File1" at the first client device has not yet been modified. 	After content of the first file ("File1") on the first client device is modified, and the metadata associated with the updated version of the first file is transferred from the server system to the second client device, but <u>before the copy of the first file (i.e., the updated version) is transferred to the second client device.</u> 

Best,
Ngai

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To: docket_ip@pillsburylaw.com,,
From: PAIR_eOfficeAction@uspto.gov
Cc: PAIR_eOfficeAction@uspto.gov
Subject: Private PAIR Correspondence Notification for Customer Number 909

Jun 09, 2020 03:41:54 AM

Dear PAIR Customer:

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

The following USPTO patent application(s) associated with your Customer Number, 909 , have new outgoing correspondence. This correspondence is now available for viewing in Private PAIR.

The official date of notification of the outgoing correspondence will be indicated on the form PTOL-90 accompanying the correspondence.

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The list of documents shown below is provided as a courtesy and is not part of the official file wrapper. The content of the images shown in PAIR is the official record.

Application	Document	Mailroom Date	Attorney Docket No.
16750435	INTV.SUM.APP	06/09/2020	023027-0509068
	OA.APPENDIX	06/09/2020	023027-0509068

To view your correspondence online or update your email addresses, please visit us anytime at <https://spotal.uspto.gov/secure/myportal/privatepair>.

If you have any questions, please email the Electronic Business Center (EBC) at EBC@uspto.gov with 'e-Office Action' on the subject line or call 1-866-217-9197 during the following hours:

Monday - Friday 6:00 a.m. to 12:00 a.m.

Thank you for prompt attention to this notice,

UNITED STATES PATENT AND TRADEMARK OFFICE
PATENT APPLICATION INFORMATION RETRIEVAL SYSTEM

Electronic Petition Request	TERMINAL DISCLAIMER TO OBVIATE A DOUBLE PATENTING REJECTION OVER A "PRIOR" PATENT
Application Number	16750435
Filing Date	23-Jan-2020
First Named Inventor	Michael MANZANO
Attorney Docket Number	023027-0509068
Title of Invention	PRE-FILE-TRANSFER AVAILABILITY INDICATION BASED ON PRIORITY METADATA

- Filing of terminal disclaimer does not obviate requirement for response under 37 CFR 1.111 to outstanding Office Action
- This electronic Terminal Disclaimer is not being used for a Joint Research Agreement.

Owner	Percent Interest
Topia Technology, Inc.	100%

The owner(s) with percent interest listed above in the instant application hereby disclaims, except as provided below, the terminal part of the statutory term of any patent granted on the instant application which would extend beyond the expiration date of the full statutory term of prior patent number(s)

10642787

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10289607

as the term of said prior patent is presently shortened by any terminal disclaimer. The owner hereby agrees that any patent so granted on the instant application shall be enforceable only for and during such period that it and the prior patent are commonly owned. This agreement runs with any patent granted on the instant application and is binding upon the grantee, its successors or assigns.

In making the above disclaimer, the owner does not disclaim the terminal part of the term of any patent granted on the instant application that would extend to the expiration date of the full statutory term of the prior patent, "as the term of said prior patent is presently shortened by any terminal disclaimer," in the event that said prior patent later:

- expires for failure to pay a maintenance fee;
- is held unenforceable;
- is found invalid by a court of competent jurisdiction;
- is statutorily disclaimed in whole or terminally disclaimed under 37 CFR 1.321;
- has all claims canceled by a reexamination certificate;
- is reissued; or
- is in any manner terminated prior to the expiration of its full statutory term as presently shortened by any terminal disclaimer.

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

Applicant claims the following fee status:

- Small Entity
- Micro Entity
- Regular Undiscounted

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

THIS PORTION MUST BE COMPLETED BY THE SIGNATORY OR SIGNATORIES

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

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

Registration Number 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 Zhang/
Name	Ngai 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:	16750435			
Filing Date:	23-Jan-2020			
Title of Invention:	PRE-FILE-TRANSFER AVAILABILITY INDICATION BASED ON PRIORITY METADATA			
First Named Inventor/Applicant Name:	Michael R. MANZANO			
Filer:	Ngai Bing Zhang/Sarah Clarke			
Attorney Docket Number:	023027-0509068			
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.: 16750435

Filing Date: 23-Jan-2020

Applicant/Patent under Reexamination: MANZANO

Electronic Terminal Disclaimer filed on June 11, 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:	39698196
Application Number:	16750435
International Application Number:	
Confirmation Number:	2793
Title of Invention:	PRE-FILE-TRANSFER AVAILABILITY INDICATION BASED ON PRIORITY 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:	023027-0509068
Receipt Date:	11-JUN-2020
Filing Date:	23-JAN-2020
Time Stamp:	18:46:34
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	E20206AI46328202
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 1.21 (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	34911 979caf23052269beac67d009305da861250 6bee9	no	3

Warnings:**Information:**

2	Fee Worksheet (SB06)	fee-info.pdf	30481 786ed5c266154458c789e4920d5b63e2802 36f05	no	2
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Warnings:**Information:**

Total Files Size (in bytes): 65392

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.

PLUS Search Results for S/N 16750435, Searched Fri Jun 12 10:01:32 EDT 2020

The Patent Linguistics Utility System (PLUS) is a USPTO automated search system for U.S. Patents from 1971 to the present PLUS is a query-by-example search system which produces a list of patents that are most closely related linguistically to the application searched. This search was prepared by the staff of the Scientific and Technical Information Center, SIRA.

5369764 99	6005569 84	5235680 84
5634091 99	6011758 84	5237732 84
5664207 99	6029153 84	
5721826 99	6047060 84	
5793938 99	6108004 84	
5819274 99	6119051 84	
6134707 99	6122631 84	
6429947 99	6208338 84	
6550061 99	6230173 84	
6636864 99	6301660 84	
7421444 99	6850950 84	
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9143561 99	20030037187 84	
9537949 99	20050114658 84	
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6108697 85	4849056 84	
5319705 84	4860123 84	
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5875110 84	5027316 84	
5915253 84	5058162 84	
5937406 84	5201047 84	
5991746 84	5222128 84	



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NOTICE OF ALLOWANCE AND FEE(S) DUE

909 7590 06/17/2020

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

EXAMINER

CHANNAVAJJALA, SRIRAMA T

ART UNIT

PAPER NUMBER

2158

DATE MAILED: 06/17/2020

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
16/750,435	01/23/2020	Michael R. MANZANO	023027-0509068	2793

TITLE OF INVENTION: PRE-FILE-TRANSFER AVAILABILITY INDICATION 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	09/17/2020

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 06/17/2020
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.
16/750,435	01/23/2020	Michael R. MANZANO	023027-0509068	2793

TITLE OF INVENTION: PRE-FILE-TRANSFER AVAILABILITY INDICATION 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	09/17/2020

EXAMINER	ART UNIT	CLASS-SUBCLASS
CHANNAVAJJALA, SRIRAMA T	2158	707-654000

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).	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.
<input type="checkbox"/> Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.	1 _____

"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 _____

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
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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
16/750,435	01/23/2020	Michael R. MANZANO	023027-0509068	2793
909	7590	06/17/2020	EXAMINER	
Pillsbury Winthrop Shaw Pittman, LLP PO Box 10500 McLean, VA 22102				CHANNAVAJJALA, SRIRAMA T
ART UNIT		PAPER NUMBER		
2158				DATE MAILED: 06/17/2020

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. 16/750,435	Applicant(s) MANZANO, Michael R.	
	Examiner Srirama T Channavajjala	Art Unit 2158	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 6/12/2020.
- 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 checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 5. <input checked="" type="checkbox"/> Examiner's Amendment/Comment |
| 2. <input type="checkbox"/> Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date _____. | 6. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance |
| 3. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit
of Biological Material _____. | 7. <input type="checkbox"/> Other _____. |
| 4. <input checked="" type="checkbox"/> Interview Summary (PTO-413),
Paper No./Mail Date. <u>6/12/2020</u> . | |

/Srirama Channavajjala/
Primary Examiner, Art Unit 2158

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 2/25/2020.

DETAILED ACTION

1. Claims 1,3-9,11-15,17-20 are allowed in this application.
2. Examiner acknowledges applicant's proposed claims via e-mailed filed on 6/12/2020.

Drawings

3. The Drawings filed on 1/23/2020 are acceptable for examination purpose.

Priority

4. Applicant's claim for the benefit of a Domestic priority based on US Provisional application 60/986,896 under 35 U.S.C. 119(e) filed on 11/09/2007 is acknowledged.

Double Patenting

5. In view of terminal disclaimer approved on 6/11/2020, the double patent rejection as set forth in the previous office action is hereby withdrawn.

EXAMINER'S AMENDMENT

Interview:

6. On 12 June 2020, a telephone call was made to applicant's representative Ngai Zhang Reg. No. 65,473 about the amendment to the claims 1,9,15 and cancel claims 2, 10, 16 in order to allow the case. The attorney agreed with the Examiner's proposal and authorization has given for an Examiner's Amendment. Total claims allowed: 1,3-9,11-15,17-20 (re-numbered as 1-17).

AMENDMENTS TO THE CLAIMS:

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

Listing Of Claims:

Please amend the claims as follows:

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;

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 graphical availability indication of the updated version of the first

file to be presented at the second client device based on the first metadata,
and

(ii) the graphical availability indication is presented proximate a file icon representing the first file on a user interface of the second client device, and

wherein the graphical availability indication indicates that the updated version of the first file generated from the user modifying the content of the first file is available to be downloaded from the server system to the second client device;
and

subsequent to the transfer of the first metadata to the second client device,
transfer the copy of the first file to the second client device,

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

(ii) the graphical availability indication is proximate a graphical file representation of the first file on a user interface of the second client device, and

wherein the graphical availability indication indicates that the updated version of the first file generated from the user modifying the content of the first file is available to be downloaded from the server system to the second client device; and

subsequent to the transfer of the first metadata to the second client device,
transferring the copy of the first file to the second client device,

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 file representation of the first file presented on the user interface of the second client device to be updated 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 an availability indication of the updated version of the first file to be presented at the second client device based on the first metadata, and

(ii) the availability indication is presented proximate a graphical file representation of the first file on a user interface of the second client device, and wherein the availability indication indicates that the updated version of the first file generated from the user modifying the content of the first file is available to be downloaded from the server system to the second client device; and

subsequent to the transfer of the first metadata to the second client device,
transferring the copy of the first file to the second client device,

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 a file representation of the first file presented on the user interface of the second client device to be updated 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.

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 the applicant's arguments at page 1-2 (6/12/2020), and further examiner amendment to the claims 1,9,15 and cancel claims 2,10,16 the prior art of record do not disclose, make obvious, or otherwise suggest the structure of the applicant's

"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 graphical availability indication of the updated version of the first file to be presented at the second client device based on the first metadata, and
- (ii) the graphical availability indication is presented proximate a file icon representing the first file on a user interface of the second client device, and wherein the graphical availability indication indicates that the updated version of the first file generated from the user modifying the content of the first file

is available to be downloaded from the server system to the second client device”,
in claim 1,9,15

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, Gorney, Boris, can be reached on (571) 270- 5626. 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 2158

<i>Examiner-Initiated Interview Summary</i>	Application No.	Applicant(s)	
	16/750,435	MANZANO, Michael R.	
	Examiner Srirama T Channavajjala	Art Unit 2158	AIA (FITF) Status No

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

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

(2) Ngai Zhang Reg. No. 65473. (4) ____.

Date of Interview: 12 June 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: claim 1-2,9-10,15-16.

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...)

On 12 June 2020, a telephone call was made to applicant's representative Ngai Zhang Reg. No. 65473 about the amendment to the claims 1,9,15 and cancel claims 2, 10, 16 in order to allow the case. The attorney agreed with the Examiner's proposal and authorization has given for an Examiner's Amendment. Total claims allowed: 1,3-9,11-15,17-20 (re-numbered as 1-17)..

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 2158	
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Notice of References CitedApplication/Control No.
16/750,435Applicant(s)/Patent Under
Reexamination
MANZANO, Michael R.Examiner
Srirama T ChannavajjalaArt Unit
2158
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-10289607-B2	05-2019	Manzano; Michael R.	G06F16/176	1/1
*	B	US-10067942-B2	09-2018	Manzano; Michael R.	G06F15/16	1/1
*	C	US-9143561-B2	09-2015	Manzano; Michael R.	G06F16/176	1/1
*	D	US-8208792-B2	06-2012	Morioka; Yoshihiro	G11B27/034	386/248
*	E	US-20050177602-A1	08-2005	Kaler, Christopher G.	H04L63/04	1/1
*	F	US-20070124334-A1	05-2007	Pepin; Brian K.	G06F8/73	1/1
	G					
	H					
	I					
	J					
	K					
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	M					

FOREIGN PATENT DOCUMENTS

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

NON-PATENT DOCUMENTS

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

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

Issue Classification 	Application/Control No.	Applicant(s)/Patent Under Reexamination
	16/750,435	MANZANO, Michael R.
	Examiner Srirama T Channavajjala	Art Unit 2158

CPC					Type	Version
Symbol	/	16	/	122	F	2019-01-01
G06F	/	15	/	16	I	2013-01-01
G06F	/	16	/	00	I	2019-01-01
G06F	/	16	/	13	I	2019-01-01
G06F	/	16	/	14	I	2019-01-01
G06F	/	16	/	128	I	2019-01-01
G06F	/	16	/	176	I	2019-01-01
G06F	/	16	/	178	I	2019-01-01
G06F	/	16	/	1873	I	2019-01-01
H04L	/	67	/	1095	I	2013-01-01

CPC Combination Sets					
Symbol		Type	Set	Ranking	Version

NONE (Assistant Examiner)	(Date)	Total Claims Allowed:	
		17	
/Srirama Channavajjala/ Primary Examiner, Art Unit 2158 (Primary Examiner)	12 June 2020 (Date)	O.G. Print Claim(s) 1	O.G. Print Figure 2 and 3

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	16/750,435	MANZANO, Michael R.
Examiner	Art Unit	
Srirama T Channavajjala	2158	

INTERNATIONAL CLASSIFICATION		
CLAIMED		
G06F	16	00
NON-CLAIMED		

US ORIGINAL CLASSIFICATION		
CLASS	SUBCLASS	

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

NONE (Assistant Examiner)	(Date)	Total Claims Allowed:	
		17	
/Srirama Channavajjala/ Primary Examiner, Art Unit 2158 (Primary Examiner)	12 June 2020 (Date)	O.G. Print Claim(s)	O.G. Print Figure 2 and 3

Issue Classification 	Application/Control No.	Applicant(s)/Patent Under Reexamination
	16/750,435	MANZANO, Michael R.
	Examiner Srirama T Channavajjala	Art Unit 2158

<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														
CLAIMS																	
Final	Original	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														
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6	7	15	18														
7	8	16	19														
8	9	17	20														
9	11																

NONE (Assistant Examiner)		Total Claims Allowed: 17
/Srirama Channavajjala/ Primary Examiner, Art Unit 2158 (Primary Examiner)	12 June 2020 (Date)	O.G. Print Claim(s) O.G. Print Figure 1 2 and 3

<i>Index of Claims</i>	Application/Control No.	Applicant(s)/Patent Under Reexamination
	16/750,435	MANZANO, Michael R.
Examiner	Art Unit	
Srirama T Channavajjala	2158	

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

CLAIMS

Claims renumbered in the same order as presented by applicant

CPA

□ T.D.

R.1.47

<i>Search Notes</i>	Application/Control No.	Applicant(s)/Patent Under Reexamination
	16/750,435	MANZANO, Michael R.
Examiner	Art Unit	
Srirama T Channavajjala	2158	

CPC - Searched*

Symbol	Date	Examiner
G06F 16/213;583;68;14;1873;27	03/18/2020	sc
G06F 16/ 122;13-14;128;176;178 ;1873	06/12/2020	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

Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	16/750,435	MANZANO, Michael R.
Examiner	Art Unit	
Srirama T Channavajjala	2158	

Search Notes		
Search Notes	Date	Examiner
Inventor searched	03/18/2020	sc
PLUS search	03/18/2020	sc
IP.COM search attached	03/18/2020	sc
google search attached	03/18/2020	sc
EAST search attached	03/18/2020	sc
PLUS search	06/12/2020	sc
Inventor searched	06/12/2020	sc
google search attached	06/12/2020	sc
IP.COM search attached	06/12/2020	sc
EAST search attached	06/12/2020	sc
EAST Interference search attached	06/12/2020	sc

Interference Search			
US Class/CPC Symbol	US Subclass/CPC Group	Date	Examiner
	G06F 16/ 122;13-14;128;176;178;1873	06/12/2020	sc

/Srirama Channavajjala/
Primary Examiner, Art Unit 2157

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	2020/06/12 15:58
L8	53	L7 and (copy\$3 near5 file\$1)	USPAT	OR	OFF	2020/06/12 15:58
L9	43	L7 and (copy\$3 near5 file\$1) and (receiv\$3 near5 file\$1)	USPAT	OR	OFF	2020/06/12 15:58
L10	10	L7 and (copy\$3 near5 file\$1) and (receiv\$3 near5 file\$1) and (modify\$3 near5 file\$1)	USPAT	OR	OFF	2020/06/12 15:58
L12	33	(file\$1 and version\$1).ti. and @py<="2007"	USPAT	OR	OFF	2020/06/12 15:58
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	2020/06/12 15:58

EAST Search History (Prior Art)

L16	12	<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</p>	USPAT	OR	OFF	2020/06/12 15:58
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EAST Search History (Prior Art)

L17	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</p>	USPAT	OR	OFF	2020/06/12 15:58
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EAST Search History (Prior Art)

L18	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 and server\$1	USPAT	OR	OFF	2020/06/12 15:58
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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	2020/06/12 15:58
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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	2020/06/12 15:58
L22	22	(document\$1 and version\$1 and copy).ab. and @py<="2007"	USPAT	OR	OFF	2020/06/12 15:58
L23	21	(version\$1 and document\$1).ti. and @py<="2007"	USPAT	OR	OFF	2020/06/12 15:58
L24	1	"10289607".pn.	USPAT	OR	OFF	2020/06/12 15:58
L34	10	L31 and (copy\$3 near5 file\$1) and (receiv\$3 near5 file\$1) and (modify\$3 near5 file\$1)	USPAT	OR	OFF	2020/06/12 15:58

EAST Search History (Prior Art)

L44	4	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 and client\$1 and server\$1 and resum\$3 and automatic\$3	USPAT	OR	OFF	2020/06/12 15:58
L48	1	"10289607".pn.	USPAT	OR	OFF	2020/06/12 15:58

EAST Search History (Prior Art)

L49	6	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)	USPAT	OR	OFF	2020/06/12 15:58
L50	30	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)	USPAT	OR	OFF	2020/06/12 15:58

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	2020/06/12 15:58
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	2020/06/12 15:58

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	2020/06/12 15:58
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	2020/06/12 15:58

EAST Search History (Prior Art)

L56	1	<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 and proxy</p>	USPAT	OR	OFF	2020/06/12 15:58
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EAST Search History (Prior Art)

L58	2	<p>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) </p>	USPAT	OR	OFF	2020/06/12 15:58
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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	2020/06/12 15:58
L60	2	(file\$1 and PRIORIT\$3).ti. and @py<="2007"	USPAT	OR	OFF	2020/06/12 15:58
L61	12	"5440737".UREF. AND @PY<="2007"	USPAT	OR	OFF	2020/06/12 15:58

EAST Search History (Prior Art)

L63	2	L61 AND ((G06F3/0605 OR G06F3/067 OR G06F3/0631 OR G06F3/0689 OR G06F11/1096 OR G06F2211/1004 OR G06F3/0614 OR G06F3/0634 OR G06F3/0644 OR G06F3/0674 OR Y10S707/99956 OR G06F11/008 OR G06F11/2094 OR G06F12/023 OR G06F16/10 OR G06F16/278 OR G06F3/0607 OR G06F3/0626 OR G06F3/0632 OR G06F3/0635 OR G06F9/5061 OR G06F9/5083 OR G11B2220/2516 OR G11B2220/45 OR G11B27/11 OR G11B5/4833 OR H04N21/2312 OR H04N21/241 OR H04N5/765 OR H04N5/775 OR Y10S707/99932 OR Y10S707/99938 OR Y10S707/99942 OR Y10S707/99943 OR Y10S707/99953 OR Y10S707/99954).CPC.) and priorit\$3	USPAT	OR	OFF	2020/06/12 15:58
L65	11	"6823348".uref.	USPAT	OR	OFF	2020/06/12 15:58
L67	9	L66 and (file\$1 near5 version\$1)	USPAT	OR	OFF	2020/06/12 15:58
L69	2	(mobile and file\$1 and version\$1).ab. and @py<="2007"	USPAT	OR	OFF	2020/06/12 15:58

EAST Search History (Prior Art)

L71	19	<p>70 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 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 (updat\$3 near5 version\$1)</p>	USPAT	OR	OFF	2020/06/12 16:15
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EAST Search History (Prior Art)

L72	2	<p>70 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 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 (updat\$3 near5 version\$1) and metadata</p>	USPAT	OR	OFF	2020/06/12 16:15
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EAST Search History (Prior Art)

L73	10	<p>70 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 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 (modify\$3 near5 (file\$1 or content\$1))</p>	USPAT	OR	OFF	2020/06/12 16:19
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EAST Search History (Prior Art)

L74	1	<p>70 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 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 (modify\$3 near5 (file\$1 or content\$1)) and graphical</p>	USPAT	OR	OFF	2020/06/12 16:23
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EAST Search History (Prior Art)

L76	9	<p>70 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 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 download\$3</p>	USPAT	OR	OFF	2020/06/12 16:24
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EAST Search History (Prior Art)

L77	8	<p>70 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 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 download\$3 and updat\$3</p>	USPAT	OR	OFF	2020/06/12 16:25
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EAST Search History (Prior Art)

L78	4	<p>70 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 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 download\$3 and updat\$3 and assign\$3</p>	USPAT	OR	OFF	2020/06/12 16:25
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EAST Search History (Prior Art)

L79	10	<p>70 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 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 (server near5 system)</p>	USPAT	OR	OFF	2020/06/12 16:26
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EAST Search History (Prior Art)

L80	10	<p>70 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 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 (server near5 system) and network\$3</p>	USPAT	OR	OFF	2020/06/12 16:26
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EAST Search History (Prior Art)

L83	7	<p>70 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 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 (server near5 system) and network\$3 and transfer\$3</p>	USPAT	OR	OFF	2020/06/12 16:31
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EAST Search History (Prior Art)

L84	5	<p>70 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 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 (server near5 system) and network\$3 and transfer\$3 and client</p>	USPAT	OR	OFF	2020/06/12 16:32
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EAST Search History (Prior Art)

L85	3	<p>70 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 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 (server near5 system) and network\$3 and transfer\$3 and client and interfac\$3 </p>	USPAT	OR	OFF	2020/06/12 16:33
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EAST Search History (Prior Art)

L86	2	<p>70 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 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 (server near5 system) and network\$3 and transfer\$3 and client and interfac\$3 and copy</p>	USPAT	OR	OFF	2020/06/12 16:33
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Inventor Information for 16/750435

Inventor Name	City	State/Country
MANZANO, MICHAEL R.	SEATTLE	WASHINGTON

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Attorney Docket #

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Channavajjala, Srirama

From: Zhang, Ngai <ngai.zhang@pillsburylaw.com>
Sent: Friday, June 12, 2020 8:54 AM
To: Channavajjala, Srirama
Cc: Clarke, Sarah L.
Subject: 16/750,435 (023027-0509068) Remarks and Proposed Examiner's Amendment
Attachments: 023027-0509068 Remarks and Proposed Examiner's Amendments.docx

Hi Examiner Channavajjala –

Per our call today, attached are our remarks and proposed claim amendments based on your suggestions to expedite allowance of this case. I hereby authorize you to enter the claim amendments in the attached document as an Examiner's Amendment.

If you have any questions, please feel free to give me a call.

Thanks,
Ngai

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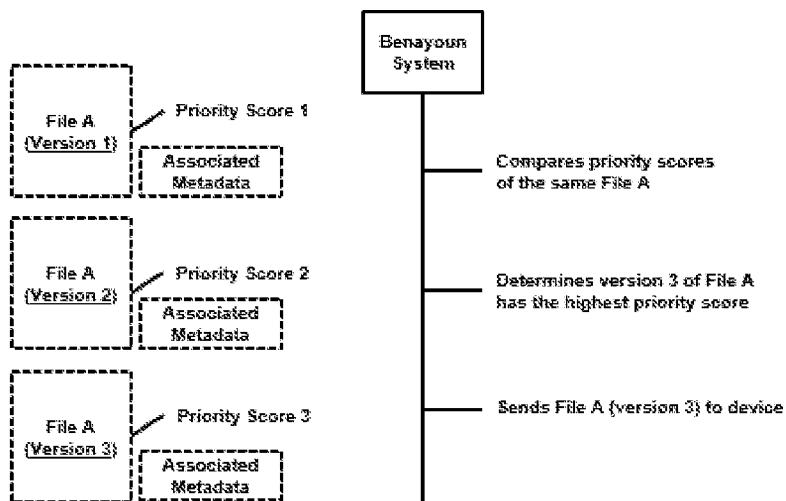
IN THE UNITED STATES PATENT & TRADEMARK OFFICE

For: PRE-FILE-TRANSFER AVAILABILITY INDICATION BASED ON PRIORITIZED METADATA

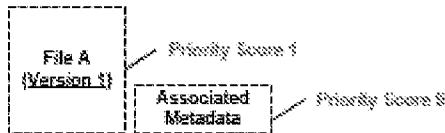
REMARKS AND PROPOSED EXAMINER'S AMENDMENT

Per our April 15 and June 6, 2020 Interviews, Applicant submits the following remarks along with the proposed Examiner's Amendment based on the Examiner's suggestions to expedite allowance of this case.

Applicant respectfully traverses the Section 103 rejections based on U.S. Patent Application No. 2003/00743376 to Benayoun (“Benayoun”) in view of U.S. Patent Application No. 2006/0026567 to McVoy (“McVoy”) at least because the cited references fail to teach or suggest the features of the independent claims. For example, Benayoun describes assigning priorities to different file versions/instances of the same file in a directory, as shown below. The Benayoun system then sends the version/instance of the file that has the highest priority.



Benayoun, however, is silent with respect to the assignment of one priority (e.g., Priority Score 1) to a file and the assignment of a different priority (e.g., Priority Score 9) to the metadata associated with the file. As an example, Benayoun does not describe a scenario similar to the following example scenario.



With respect to McVoy, while it discusses the sending of metadata related to file versions, it appears to describe transferring both metadata and version deltas, in a patch, at the same time when a user at a first client device requests the patch from a second client device.

Moreover, there are no discussions in either reference about the specific presentation of the graphical availability indication caused by “the transfer of the first metadata to the second client device,” where the presentation occurs “before the copy of the first file is transferred to the second client device.” Given the foregoing, the cited references fail to teach the following limitations of claim 1:

- 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:
 - 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 at the second client device based on the first metadata, and
 - the graphical availability indication is proximate a file icon representing the first file on a user interface of the second client device, and
- wherein the graphical availability indication indicates that the updated version of the first file generated from the user modifying the content of the first file is available to be downloaded from the server system to the second client device.

Although Applicant disagrees with the rejections, Applicant submits the following proposed Examiner's Amendment solely to expedite allowance of this case based on the Examiner's suggestions during the Interview.

PROPOSED EXAMINER'S AMENDMENT

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;

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 graphical availability indication of the updated version of the first file to be presented at the second client device based on the first metadata, and

(ii) the graphical availability indication is presented proximate a file icon representing the first file on a user interface of the second client device, and wherein the graphical availability indication indicates that the updated version of the first file generated from the user modifying the content of the first file is available to be downloaded from the server system to the second client device; and

subsequent to the transfer of the first metadata to the second client device, transfer the copy of the first file to the second client device,

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

(ii) the graphical availability indication is proximate a graphical file representation of the first file on a user interface of the second client device, and wherein the graphical availability indication indicates that the updated version of the first file generated from the user modifying the content of the first file is available to be downloaded from the server system to the second client device; and

subsequent to the transfer of the first metadata to the second client device, transferring the copy of the first file to the second client device.

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

file representation of the first file presented on the user interface of the second client device to be updated 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 an availability indication of the updated version of the first file to be presented at the second client device based on the first metadata, and

(ii) the availability indication is presented proximate a graphical file representation of the first file on a user interface of the second client device, and wherein the availability indication indicates that the updated version of the first file generated from the user modifying the content of the first file is available to be downloaded from the server system to the second client device; and

subsequent to the transfer of the first metadata to the second client device, transferring the copy of the first file to the second client device,

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 a file representation of the first file presented on the user interface of the second client device to be updated 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.

Visible

↑↑ Relevance

↓↓ None

⊗ None

4 - 58

17,850,025 results

1. System and method for controlling versions of files

A file version control system for creating a basic file, the basic file consisting of a folder and a file under the folder; operating on the basic file; and performing a version file when the user completes the operation of the basic file again. The present invention provides a system for...

CURRENT ASSIGNEE: HON HAI PRECISION IND. CO., LTD.

EP060527993A1 | EP060527993 | 18-Nov-1993

p p p p

2. Determining the preferred modified version from multiple modified versions for synchronized files

The server stores a plurality of files and manages the synchronization of the plurality of files across client devices in accordance with user preferences implemented in the change management rules. The first version of the file is designated to be synchronized across at least the first client and...

CURRENT ASSIGNEE: DROPBOX INC.

EP201552764A1 | JAPAN APPLICATIONS | 17-SEP-2015

p p p p

Visible

↑↑ Relevance

↓↓ None

⊗ None

CURRENT ASSIGNEE: SYNTHESYS INC.

US20130173698A1 | US APPLICATIONS | 11-JUL-2013

p p p p

3. Method and system for in-place updating content stored in a storage device

Method and system for in-place updating original content of an original version stored in a non-volatile storage device and for yielding updated content of an updated version. Wherein at least part of content of each one of $n \times t$ blocks of the original version are modified in the updated version...

CURRENT ASSIGNEE: RED BEND SOFTWARE INC.

EP051475781A1 | EPO PATENTS | 16-JAN-2018

p p p p

4. Determining a preferred modified version from among multiple modified versions for synchronized files

A server stores files and manages the synchronization of those files across client devices in accordance with user preferences that may be embodied in change management rules. A first version of a file has been designated to be synchronized across at least a first client and a second client. The...

CURRENT ASSIGNEE: DROPBOX INC.

EP200013640A1 | EPO APPLICATIONS | 01-JAN-2014

p p p p

5. System for updating diverse file versions

An update system for updating different versions of an original source file that have been generated in different workspaces is implemented in a network of processor-based systems. A first modified version and a second with visibility changes over time.

PROCEDURES&METHODS | THE IPI.COM JOURNAL | 02-APR-2014 | The IP.com Prior Art Database

p p p p

6. Differential patch of content

Devices and techniques to incrementally update content associated with an electronic publication are described. A patch generation module may be configured to generate patch data files comprising incremental

Visible

↑↑ Relevance

↓↓ None

⊗ None

7. Method and system for in-place updating content stored in a storage device

Method and system for in-place updating original content of an original version stored in a non-volatile storage device and for yielding updated content of an updated version. Wherein at least part of content of each one of $n \times t$ blocks of the original version are modified in the updated version...

CURRENT ASSIGNEE: RED BEND SOFTWARE INC.

WO200702915A1 | WO/PATENT | 10-MAR-2007

p p p p

8. Differential patching of content

Devices and techniques to incrementally update content associated with an electronic publication are described. A patch generation module may be configured to generate patch data files comprising incremental changes associated with the electronic publication. A differential patch module located on a...

CURRENT ASSIGNEE: AMAZON TECH INC.

US5585758A1 | US PATENTS | 27-DEC-2006

p p p p

9. Method and system for in-place updating content stored in a storage device

Method and system for in-place updating original content of an original version stored in a non-volatile storage device and for yielding updated content of an updated version. Wherein at least part of content of each one of $n \times t$ blocks of the original version are modified in the updated version...

CURRENT ASSIGNEE: RED BEND SOFTWARE INC.

EP0916927A1 | EPO APPLICATIONS | 25-APR-2008

p p p p

10. System and method for generating file updates for files stored on read-only media

A method and system of the present invention generates a representation of a new version of an original file system with reference to the original file system and the new version of the file system. Use of data from previous versions of the file system reduces the amount of data to be stored in the...

CURRENT ASSIGNEE: IOIA LTD

US6024286A1 | US PATENTS | 05-AUG-2006

p p p p

11. Enhanced updating for digital content

Disclosed herein are systems, methods, and software to enhance updates to digital content. In at least one implementation, an update agent identifies from a set of files at least a file that is scheduled to be updated from a present version of the file to a new version of the file as part of an...

CURRENT ASSIGNEE: MICROSOFT TECH LICENSING LLC

WO2005075998A1 | WO/PATENT | 16-DEC-2005

p p p p

Relevance None None

- 33 An automated communications system and method for transferring informations between databases in order to control and process communications
An automated communications system operates to transfer data, metadata, and methods from a provider computer (1) to a consumer computer (2) through a communications network (3). The transferred information controls the communications relationship, including responses by the consumer computer (2)..

CURRENT ASSIGNEE: INTERING CO., LTD
W01973525A1 | WO/P APPLICATIONS | 04-JUN-1997

SEE ALSO

- 32 Interface
An application programmer's interface provides a facility for accessing metadata describing the content or attributes of information material. The application programmer's interface comprises a signalling protocol processor operable to receive a metadata string which includes a resource identifier..

CURRENT ASSIGNEE: SONY EUR LTD
US201589734 | US PATENTS | 07-JUN-2017

SEE ALSO

- 31 Application programming interface for accessing metadata
An application programming interface provides access to metadata describing the content or attributes of information material. An application programming interface describes a content or attribute of an item of information material, receives a metadata string including a resource identifier..

CURRENT ASSIGNEE: SONY EUR LTD
W020075568 | JAPAN APPLICATIONS | 08-UNF-2004

SEE ALSO

- 30 An automated communications system and method for transferring informations between databases in order to control and process communications
An automated communications system operates to transfer data, metadata and methods from a provider computer to a consumer computer through a communications network. The transferred information controls the communications relationship, including responses by the consumer computer, updating of..

CURRENT ASSIGNEE: INTERING CO., LTD
AU200200982 | AUSTRALIA PATENTS | 25-FEB-1999

SEE ALSO

- 29 An automated communications system and method for transferring informations between databases in order to control and process communications
An automated communications system operates to transfer data, metadata, and methods from a provider computer (1) to a consumer computer (2) through a communications network (3). The transferred information controls the communications relationship, including responses by the consumer computer (2)..

CURRENT ASSIGNEE: INTERING CO., LTD
CA2147698C | CANADA PATENTS | 02-JAN-2007

SEE ALSO

- 28 Dynamic mechanism for providing metadata
Dynamic metadata allows for metadata that can be configured for an application programming interface (API) after the API has shipped. Multiple entities can provide metadata for the same API or portions of an API. The metadata provided for an API can be set up for each application domain, allowing..

CURRENT ASSIGNEE: MICROSOFT TECH LICENSING LLC
US20070243544 | US APPLICATIONS | 31-MAY-2007

SEE ALSO

- 27 Navigating network resources based on metadata
Mechanisms for associating metadata with network resources, and for locating the network resources in a language-independent manner, are disclosed. Owners of network resources define metadata that describes each network resource. The metadata may include a natural language name of the network..

CURRENT ASSIGNEE: REALNAMES CORP
TW20011110001 | TAIWAN PATENTS | 10-DEC-2001

SEE ALSO

- 26 Scoped metadata
Methods, systems, and data structures for communicating object metadata are provided. A generic metadata container is presented that allows object metadata to be described in an extensible manner using protocol-neutral and platform-independent methodologies. A metadata scope refers to a dynamic..

CURRENT ASSIGNEE: MICROSOFT TECH LICENSING LLC
US20030074597 | US APPLICATIONS | 17-APR-2003

SEE ALSO

- 25 Method and system for managing metadata
Methods and systems for managing metadata are described. The method comprises steps of receiving a request from an application to access a metadata attribute corresponding to a piece of content, determining whether the application is authorized to access the metadata attribute, retrieving the..

CURRENT ASSIGNEE: NOKIA CORP [1]
WO20050100048 | WIPO APPLICATIONS | 02-FEB-2005

SEE ALSO

- 24 Scoped metadata
Methods, systems, and data structures for communicating object metadata are provided. A generic metadata container is presented that allows object metadata to be described in an extensible manner using protocol-neutral and platform-independent methodologies. A metadata scope refers to a dynamic..

CURRENT ASSIGNEE: MICROSOFT TECH LICENSING LLC
US20030077602 | US APPLICATIONS | 10-AUG-2003

SEE ALSO

- 23 Metadata brokering server and methods
Exemplary embodiments of the present invention provide methods and systems for providing rich multimedia metadata that can be used, for example, to create complex entertainment user interfaces at home. These methods and systems can be implemented as server-based software applications provided to a..

CURRENT ASSIGNEE: MINDCREAT LAB INC
KR20060020717A | KOREA APPLICATIONS | 09-DEC-2006

SEE ALSO

SEARCH TERMS



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automatically transfer metadata

+ Synonym

+ Synonym

SEARCHED FIELDS

Date Priority

YYYY-MM-DC — YYYY-MM-DC

+ Inventor

+ Assignee

Patent Office Language

Status Type

Litigation

Image exchange with image annotation

US 7500419B2 • Kentaro Toyama • Microsoft Corp

Priority 2001-10-09 • Filed 2005-10-14 • Granted 2009-03-24 • Published 2009-03-24

A system and method for providing a peer-to-peer photo-sharing environment. The system includes: manual and automatic photo annotation at the client; periodic client-server synchronization; an index of client photos on a central server or a photo database that is resident on the central server; ...

System for managing content data, metadata related to the content data, and ...

WO EP US CN JP AU IL SG - 2005054082 - フジテクノロジーズ・インターナショナル・ゼンキス・マシンズ・コローネル・インターナショナル Business Machines Corporation

Priority 1999-08-13 • Filed 2004-09-16 • Granted 2010-10-20 • Published 2010-10-20

A system for tracking usage of digital content on user devices. Electronic stores coupled to a network sell licenses to play digital content data to users. Content players, which receive from the network the licensed content data, are used to play the licensed content data. Additionally, a logging ...

Computer-based communication system and method using metadata defining a ...

WO EP US AU IL - US65988717A • Drummond Shattuck Reed • Onename Corporation

Priority 1999-02-29 • Filed 1999-06-31 • Granted 2000-07-11 • Published 2000-07-11

An automated communications system operates to transfer data, metadata and methods from a provider computer to a consumer computer through a communications network. The transferred information controls the communications relationship, including responses by the consumer computer, updating of ...

Method,authoring system, and computer readable storage medium collaborative ...

WO EP US CN JP KR AU BR MX MY RU TW - IMA2577889 - Jonathan Beckett Baker • Microsoft Corp

Priority 2007-11-09 • Filed 2008-10-14 • Granted 2014-10-21 • Published 2014-10-21

In Fig. 16, each of the first and second arithmetic devices has found the presence of the other party. Therefore, each of the first and second computing devices has begun to automatically transfer metadata updates to each other. As shown in FIG. 16, the first authoring application provides updated ...

Audio and video program recording, editing and playback systems using metadata

US 8562332B2 • James D. Logan • DigitalSmiths Inc.

Priority 1999-03-28 • Filed 2007-06-20 • Granted 2013-07-24 • Published 2012-07-24

A system for utilizing metadata created either at a central location for shared use by connected users, or at each individual user's location, to enhance user's enjoyment of available broadcast programming content. A variety of mechanisms are employed for automatically and manually identifying and ...

Method and apparatus for establishing a social network via file transfer

WO EP US CN JP KR - JP5215950B2 - フジテクノロジーズ・インターナショナル・ゼンキス・マシンズ・コローネル・インターナショナル Business Machines Corporation

Priority 2009-04-02 • Filed 2009-06-12 • Granted 2013-06-19 • Published 2013-06-19

Methods and apparatus for creating social networks include establishing a close range communication link between a first mobile device and a second mobile device and transmitting social network information from one mobile device to the other via the close range communication link. The social ...

Data object store and server for a cloud storage environment, including data ...

WO EP US AU CA - US20110175886A1 - Award Platina • Commvault Systems, Inc.

Priority 2009-06-30 • Filed 2010-02-14 • Published 2013-06-13

Data storage operations, including content-indexing, containerized deduplication, and policy-driven storage, are performed within a cloud environment. The systems support a variety of clients and cloud storage sites that may connect to the system in a cloud environment that requires data transfer ...

Media file sharing, correlation of metadata related to shared media files and ...

EP US KR - KR10065104881 - 캐드 플랫폼 코스피인, 뉴타이크로스피인

Priority 2003-12-31 • Filed 2004-12-30 • Granted 2008-11-29 • Published 2008-11-29

The present invention provides a system and method for transferring media files and creating a collection of media files, also referred to as master media files. In addition, the systems and ...

..... references or use previous inventors prior art and distinctive features of the subject matter in compilation of ...

Multi-services application gateway and system employing the same

WO US - US2013022582 - Ambr Assari - Prodes Systems, Inc

Priority 2006-12-29 • Filed 2007-12-31 • Granted 2013-03-21 • Published 2013-03-21

An intelligent gateway device provided at a premises (home or business) for providing and managing application services associated with use and support of a plurality of digital endpoint devices associated with the premises. The device implements includes a communications and processing ...

Object-based on-line transaction infrastructure

US - US6757118B2 - Drummond Shattuck Reed - OneName Corporation

Priority 1996-02-29 • Filed 2002-02-06 • Granted 2004-06-29 • Published 2004-06-29

An automated communications system operates to transfer data, metadata and methods from a provider computer to a consumer computer through a communications network. The transferred information controls the communications relationship, including responses by the consumer computer, updating of ...

Next >

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SEARCH TERMS

transfer metadata client device

+ Synonym

SEARCH FIELDS

Data - Priority

YYYY-MM-DD — YYYY-MM-DD

+ Inventor

+ Assignee

Patent Office Language

Status Type

Litigation

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Server apparatus and server apparatus control method

WO US JP - JP20130597762 - 順次 誠司・株式会社日立製作所

Priority 2010-09-14 • Filed 2010-09-14 • Granted 2014-03-12 • Published 2014-03-12

A client device, a first storage device, and a second server device to which the second storage device is communicably connected are first server devices that are communicably connected. When receiving an access request for the file from the client device, the file data stored in the first storage ...

Cloud-based distributed data system

WO EP US JP KR - JP620448822 - サクセス・ソリューションズ・システムズ・インコーポレーテッド

Priority 2012-01-10 • Filed 2012-01-10 • Granted 2016-02-26 • Published 2016-02-26

A system, A platform including a processor coupled to multiple databases, A grid comprising a plurality of agents coupled to the platform, wherein each agent of the plurality of agents is an agent of the platform executing on a client device, Metadata in memory content accessible by a plurality of ...

Audio and video program recording, editing and playback systems using metadata

US US20090343552 - James D. Logan - DigitalSmile, Inc.

Priority 1999-03-23 • Filed 2007-06-26 • Granted 2012-07-24 • Published 2012-07-24

A system for utilizing metadata created either at a central location for shared use by connected users, or at each individual user's location, to enhance user's enjoyment of available broadcast programming content. A variety of mechanisms are employed for automatically and manually identifying and ...

Speeding up document loading

WO EP US CN TW - US2012032503A1 - Ramkumar Raman - Google Inc.

Priority 2010-11-21 • Filed 2010-04-05 • Published 2010-10-21

Methods, systems, and apparatus, including computer programs encoded on a computer storage medium, for speeding up document loading. In some implementations, a resource of a document is requested from a first source, and metadata for the document is requested from a second source that is different ...

Information processing system and control method of information processing ...

WO US JP - JP571555520 - 朝久 篤・株式会社日立製作所

Priority 2011-07-22 • Filed 2011-07-22 • Granted 2015-06-13 • Published 2015-06-13

A plurality of first storage apparatuses that receive data I/O requests in file units sent from the information processing apparatus and perform data I/O; An information processing system comprising a second storage device communicably connected to each of the plurality of first storage ...

Handling multiple users joining groups simultaneously

WO EP US CN DE - US568888822 - Vincent Nallet - LinkedIn Corporation

Priority 2011-03-23 • Filed 2013-09-25 • Granted 2014-11-04 • Published 2014-11-04

Systems and methods for the forming of user device groups are presented. Logical relationship information describing one-to-one logical relationships among a first user and other users are recorded. Then content from a first user device of the first user and content from a second user device of ...

System for distributed media network and metadata server.

WO EP US CN JP KR AT AU CA DE ES - EP2349115B2 - Timothy R. Breton - Listen.Com, Inc.

Priority 2009-02-04 • Filed 2009-02-05 • Granted 2013-12-23 • Published 2010-12-08

BACKGROUND OF THE INVENTION Field of the Invention The present invention relates to network media systems, specifically to network systems for the delivery of entertainment information or data. Background Devices connected to a network are usually used to access media data through that network.

Correlated media source management and response control

US US1041972B2 - Thomas Guzik - Wip Workflow Solutions, Inc.

Priority 2009-04-28 • Filed 2010-03-10 • Granted 2019-09-17 • Published 2019-09-17

Response personnel may be dispatched based on nature of the data assets received. A data asset that is captured by a user device is received, the data asset includes capture time and date data. The data asset is reviewed for an event that warrants dispatch of a responder. The responder is ...

Data synchronization based on client device location

US - US9217923B1 - Bhavyan Sharshumar Mehta - Commvault Systems, Inc.

Priority 2014-12-05 - Filed 2017-06-07 - Published 2017-08-17

According to certain aspects, a method can include electronically accessing, by a storage manager, a stored synchronization policy specifying at least a first folder associated with a first computing device and a second folder associated with a second computing device; identifying a first file ...

Method, apparatus and system for viewing content on a client device

US CN 98 - US9245832 - Clive Henry Gillard - Sony Corporation

Priority 2011-03-23 - Filed 2014-03-11 - Granted 2014-12-30 - Published 2014-12-30

A method of viewing a highlight package on a client device, comprising at the client device: receiving a video stream comprising a plurality of frames, receiving field of view information from a server, the field of view information identifying, for a frame in the received video stream, positional

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SEARCH TERMS

X

priority metadata + Synonym

+ Synonym

SEARCH FIELDS

Date • Priority

YYYY-MM-DD — YYYY-MM-DD

+ Inventor

+ Assignee

Patent Office Language

Status Type

Litigation

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Content shooting apparatus for generating scene representation metadata

WO EP US JP CN KR - US200872822 - Yoshihiro Morikawa - Panasonic Corporation

Priority 2006-09-12 • Filed 2007-09-12 • Granted 2012-06-26 • Published 2012-06-26

It is also possible to provide an additional mode to be set for selecting the second metadata only when the total value of priority metadata within the window W of a given period (the weighted total value of the priorities (SP)) exceeds a preset value (e.g., 250). In addition, it is also possible ...

Automatic rules-based device synchronization

US - US7647345B2 - Andrew L. Silverman - Microsoft Corporation

Priority 2005-03-28 • Filed 2005-03-28 • 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 ...

Video display with rendering control using metadata embedded in the bitsream

WO EP US CN JP KR - KR101428594B1 - 네이버 디벨루, 브로드 콘텐츠 서비스

2012-07-12

Priority 2010-02-22 • Filed 2010-02-17 • Granted 2014-08-11 • Published 2014-08-11

31. The apparatus of any one of claims 23 to 31, wherein the video capture subsystem, the subsequent task subsystem, and the display subsystem are adapted to transmit relatively low priority metadata to be intercepted for delivery of relatively high priority metadata And to manage delivery to the ...

Managing duplicate media items

US - US20140244608A1 - Edward Thomas Schmid - Apple Inc

Priority 2013-02-26 • Filed 2013-02-26 • Published 2014-08-28

Systems, methods, devices, and computer-readable media for managing duplicate media items. The system first analyzes a first file from a first source, wherein the first file is a duplicate of a second file. Next, the system deduplicates the first file and the second file to yield a deduplicated ...

Device and method for metadata management

WO EP US CN KR - CN1799979B - 中兴, 三思电子有限公司

Priority 2003-05-04 • Filed 2004-03-18 • Granted 2013-06-20 • Published 2013-06-20

4. device as claimed in claim 1, wherein, when the priority of metadata was defined according to the attribute of metadata, predetermined matching list was created, and said matching list comprises and each attribute corresponding metadata tabulation. 5. the method for a management of metadata said ...

Prioritizing data deduplication

US - US8886613B2 - Don Deemer - Don Deemer

Priority 2010-10-12 • Filed 2010-10-12 • Granted 2014-11-11 • Published 2014-11-11

5. The method of claim 4, where associating the replication priorities with items to be deduplicated includes one or more of, adding a replication priority to an item, and adding a replication priority to metadata associated with an item. 6. The method of claim 5, the item being one of, a virtual ...

Metadata transcoding

WO EP US CN JP KR BR ES IN RU - JP200579182 - シュナイダー, アンドレアス・ヘルゼー ラボ

テクノロジーズ ライセンシング コーポレイション

Priority 2003-01-21 • Filed 2007-08-28 • Granted 2019-04-24 • Published 2019-04-24

... , the incoming metadata frame 112 may include multiple blocks 140 of incremental metadata. Here, the block 140 of the highest priority metadata contains the version of the metadata with the lowest acceptable quality, and the blocks 140 with successively lower priority are the stages of the metadata

US · US2008293262 · Nikhil Raghavan · Oracle International Corporation
Priority 2012-02-16 · Filed 2012-02-16 · Granted 2014-03-25 · Published 2014-03-25
CROSS-REFERENCE TO RELATED APPLICATIONS This application is related to U.S. patent application Ser. No. 13/358,792, filed Feb. 16, 2012, entitled "MECHANISMS FOR METADATA SEARCH IN ENTERPRISE APPLICATIONS," by Raghavan et al. (hereinafter "Metadata Application"); and U.S. patent application Ser.

Methods and systems for managing data

WO EP US DK HK · US20150154813A1 · Yael Aronuye · Apple Inc
Priority 2014-05-23 · Filed 2013-10-30 · Published 2016-05-02
Systems and methods for managing data, such as metadata or indexes for index databases. In one exemplary method, different processing priorities are assigned to different indexing tasks based upon the origin of the task. In another exemplary method, indexing tasks are processed in a first mode ...

Automated priority backup and archive

US · US8924352B1 · William Dale Andress · EMC Corporation
Priority 2007-03-01 · Filed 2007-06-28 · Granted 2014-12-30 · Published 2014-12-30
A method, article of manufacture, and apparatus for backing up or archiving objects from a first location to a second location, comprising determining the objects to be backed up and a prioritization of the objects according to a first criterion. The objects are transmitted from the first location ...

Next > >> About 43,000 results

Bibliographic Data

Application No: 16/750,435

Foreign Priority claimed: Yes No

35 USC 119 (a-d) conditions met: Yes No

Verified and Acknowledged: /Srirama Channavajjala/

Examiner's Signature

Met After Allowance

Initials

Title:

PRE-FILE-TRANSFER AVAILABILITY INDICATION BASED ON
PRIORITYIZED METADATA

FILING or 371(c) DATE	CLASS	GROUP ART UNIT	ATTORNEY DOCKET NO.
01/23/2020	707	2158	023027-0509068
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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FILING FEE RECEIVED

\$2,855

EAST Search History (Interference)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L7	1	(metadata and updat\$3 and version\$1 and content\$1 and modify\$3 and responsive and receiv\$3 and network\$3 and first and file and client and device\$1 and associat\$3 and user\$1).clm.	USPAT	OR	OFF	2020/06/12 15:30
L8	1	(assign\$3 and metadata and updat\$3 and version\$1 and content\$1 and modify\$3 and responsive and receiv\$3 and network\$3 and first and file and client and device\$1 and associat\$3 and user\$1).clm.	USPAT	OR	OFF	2020/06/12 15:31
L9	1	(priority and assign\$3 and metadata and updat\$3 and version\$1 and content\$1 and modify\$3 and responsive and receiv\$3 and network\$3 and first and file and client and device\$1 and associat\$3 and user\$1).clm.	USPAT	OR	OFF	2020/06/12 15:31
L10	1	(automatically and priority and assign\$3 and metadata and updat\$3 and version\$1 and content\$1 and modify\$3 and responsive and receiv\$3 and network\$3 and first and file and client and device\$1 and associat\$3 and user\$1).clm.	USPAT	OR	OFF	2020/06/12 15:31
L11	1	(transfer\$3 and automatically and priority and assign\$3 and metadata and updat\$3 and version\$1 and content\$1 and modify\$3 and responsive and receiv\$3 and network\$3 and first and file and client and device\$1 and associat\$3 and user\$1).clm.	USPAT	OR	OFF	2020/06/12 15:32
L12	1	(copy\$3 and transfer\$3 and automatically and priority and assign\$3 and metadata and updat\$3 and version\$1 and content\$1 and modify\$3 and responsive and receiv\$3 and network\$3 and first and file and client and device\$1 and associat\$3 and user\$1).clm.	USPAT	OR	OFF	2020/06/12 15:33
L13	0	(download\$3 and copy\$3 and transfer\$3 and automatically and priority and assign\$3 and metadata and updat\$3 and version\$1 and content\$1 and modify\$3 and responsive and receiv\$3 and network\$3 and first and file and client and device\$1 and associat\$3 and user\$1).clm.	USPAT	OR	OFF	2020/06/12 15:34
L14	0	(system and download\$3 and copy\$3 and transfer\$3 and automatically and priority and assign\$3 and metadata and updat\$3 and version\$1 and content\$1 and modify\$3 and responsive and receiv\$3 and network\$3 and first and file and client and device\$1 and associat\$3 and user\$1).clm.	USPAT	OR	OFF	2020/06/12 15:35

EAST Search History (Interference)

L15	1	(assignment and copy\$3 and transfer\$3 and automatically and priority and assign\$3 and metadata and updat\$3 and version\$1 and content\$1 and modify\$3 and responsive and receiv\$3 and network\$3 and first and file and client and device\$1 and associat\$3 and user\$1).clm.	USPAT	OR	OFF	2020/06/12 15:36
L16	1	(server\$1 and assignment and copy\$3 and transfer\$3 and automatically and priority and assign\$3 and metadata and updat\$3 and version\$1 and content\$1 and modify\$3 and responsive and receiv\$3 and network\$3 and first and file and client and device\$1 and associat\$3 and user\$1).clm.	USPAT	OR	OFF	2020/06/12 15:36
L17	1	(interface and server\$1 and assignment and copy\$3 and transfer\$3 and automatically and priority and assign\$3 and metadata and updat\$3 and version\$1 and content\$1 and modify\$3 and responsive and receiv\$3 and network\$3 and first and file and client and device\$1 and associat\$3 and user\$1).clm.	USPAT	OR	OFF	2020/06/12 15:36
L18	1	(user\$1 and interface and server\$1 and assignment and copy\$3 and transfer\$3 and automatically and priority and assign\$3 and metadata and updat\$3 and version\$1 and content\$1 and modify\$3 and responsive and receiv\$3 and network\$3 and first and file and client and device\$1 and associat\$3 and user\$1).clm.	USPAT	OR	OFF	2020/06/12 15:37
L19	1	(file\$1 and user\$1 and interface and server\$1 and assignment and copy\$3 and transfer\$3 and automatically and priority and assign\$3 and metadata and updat\$3 and version\$1 and content\$1 and modify\$3 and responsive and receiv\$3 and network\$3 and first and file and client and device\$1 and associat\$3 and user\$1).clm.	USPAT	OR	OFF	2020/06/12 15:37
L20	1	(generat\$3 and file\$1 and user\$1 and interface and server\$1 and assignment and copy\$3 and transfer\$3 and automatically and priority and assign\$3 and metadata and updat\$3 and version\$1 and content\$1 and modify\$3 and responsive and receiv\$3 and network\$3 and first and file and client and device\$1 and associat\$3 and user\$1).clm.	USPAT	OR	OFF	2020/06/12 15:38
L21	1	(communicat\$3 and generat\$3 and file\$1 and user\$1 and interface and server\$1 and assignment and copy\$3 and transfer\$3 and automatically and priority and assign\$3 and metadata and updat\$3 and version\$1 and content\$1 and modify\$3 and responsive and receiv\$3 and network\$3 and first and file and client and device\$1 and associat\$3 and user\$1).clm.	USPAT	OR	OFF	2020/06/12 15:38

EAST Search History (Interference)

L22	1	(application\$1 and communicat\$3 and generat\$3 and file\$1 and user\$1 and interface and server\$1 and assignment and copy\$3 and transfer\$3 and automatically and priority and assign\$3 and metadata and updat\$3 and version\$1 and content\$1 and modify\$3 and responsive and receiv\$3 and network\$3 and first and file and client and device\$1 and associat\$3 and user\$1).clm.	USPAT	OR	OFF	2020/06/12 15:39
L23	1	(push and application\$1 and communicat\$3 and generat\$3 and file\$1 and user\$1 and interface and server\$1 and assignment and copy\$3 and transfer\$3 and automatically and priority and assign\$3 and metadata and updat\$3 and version\$1 and content\$1 and modify\$3 and responsive and receiv\$3 and network\$3 and first and file and client and device\$1 and associat\$3 and user\$1).clm.	USPAT	OR	OFF	2020/06/12 15:39
L24	1	(object\$1 and push and application\$1 and communicat\$3 and generat\$3 and file\$1 and user\$1 and interface and server\$1 and assignment and copy\$3 and transfer\$3 and automatically and priority and assign\$3 and metadata and updat\$3 and version\$1 and content\$1 and modify\$3 and responsive and receiv\$3 and network\$3 and first and file and client and device\$1 and associat\$3 and user\$1).clm.	USPAT	OR	OFF	2020/06/12 15:40
L25	1	(agent\$1 and object\$1 and push and application\$1 and communicat\$3 and generat\$3 and file\$1 and user\$1 and interface and server\$1 and assignment and copy\$3 and transfer\$3 and automatically and priority and assign\$3 and metadata and updat\$3 and version\$1 and content\$1 and modify\$3 and responsive and receiv\$3 and network\$3 and first and file and client and device\$1 and associat\$3 and user\$1).clm.	USPAT	OR	OFF	2020/06/12 15:40
L26	1	(mobile and agent\$1 and object\$1 and push and application\$1 and communicat\$3 and generat\$3 and file\$1 and user\$1 and interface and server\$1 and assignment and copy\$3 and transfer\$3 and automatically and priority and assign\$3 and metadata and updat\$3 and version\$1 and content\$1 and modify\$3 and responsive and receiv\$3 and network\$3 and first and file and client and device\$1 and associat\$3 and user\$1).clm.	USPAT	OR	OFF	2020/06/12 15:40

EAST Search History (Interference)

L27	1	(proxy and mobile and agent\$1 and object\$1 and push and application\$1 and communicat\$3 and generat\$3 and file\$1 and user\$1 and interface and server\$1 and assignment and copy\$3 and transfer\$3 and automatically and priority and assign\$3 and metadata and updat\$3 and version\$1 and content\$1 and modify\$3 and responsive and receiv\$3 and network\$3 and first and file and client and device\$1 and associat\$3 and user\$1).clm.	USPAT	OR	OFF	2020/06/12 15:41
L28	1	(availability and proxy and mobile and agent\$1 and objects\$1 and push and application\$1 and communicat\$3 and generat\$3 and file\$1 and user\$1 and interface and server\$1 and assignment and copy\$3 and transfer\$3 and automatically and priority and assign\$3 and metadata and updat\$3 and version\$1 and content\$1 and modify\$3 and responsive and receiv\$3 and network\$3 and first and file and client and device\$1 and associat\$3 and user\$1).clm.	USPAT	OR	OFF	2020/06/12 15:41
L29	1	(graphical and availability and proxy and mobile and agent\$1 and object\$1 and push and application\$1 and communicat\$3 and generat\$3 and file\$1 and user\$1 and interface and server\$1 and assignment and copy\$3 and transfer\$3 and automatically and priority and assign\$3 and metadata and updat\$3 and version\$1 and content\$1 and modify\$3 and responsive and receiv\$3 and network\$3 and first and file and client and device\$1 and associat\$3 and user\$1).clm.	USPAT	OR	OFF	2020/06/12 15:42
L30	0	(icon\$1 and graphical and availability and proxy and mobile and agent\$1 and object\$1 and push and application\$1 and communicat\$3 and generat\$3 and file\$1 and user\$1 and interface and server\$1 and assignment and copy\$3 and transfer\$3 and automatically and priority and assign\$3 and metadata and updat\$3 and version\$1 and content\$1 and modify\$3 and responsive and receiv\$3 and network\$3 and first and file and client and device\$1 and associat\$3 and user\$1).clm.	USPAT	OR	OFF	2020/06/12 15:43

EAST Search History (Interference)

L31	1	(indication\$1 and graphical and availability and proxy and mobile and agent\$1 and object\$1 and push and application\$1 and communicat\$3 and generat\$3 and file\$1 and user\$1 and interface and server\$1 and assignment and copy\$3 and transfer\$3 and automatically and priority and assign\$3 and metadata and updat\$3 and version\$1 and content\$1 and modify\$3 and responsive and receiv\$3 and network\$3 and first and file and client and device\$1 and associat\$3 and user\$1).clm.	USPAT	OR	OFF	2020/06/12 15:44
-----	---	---	-------	----	-----	------------------

To: docket_ip@pillsburylaw.com,,
From: PAIR_eOfficeAction@uspto.gov
Cc: PAIR_eOfficeAction@uspto.gov
Subject: Private PAIR Correspondence Notification for Customer Number 909

Jun 17, 2020 03:46:20 AM

Dear PAIR Customer:

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

The following USPTO patent application(s) associated with your Customer Number, 909 , have new outgoing correspondence. This correspondence is now available for viewing in Private PAIR.

The official date of notification of the outgoing correspondence will be indicated on the form PTOL-90 accompanying the correspondence.

Disclaimer:

The list of documents shown below is provided as a courtesy and is not part of the official file wrapper. The content of the images shown in PAIR is the official record.

Application	Document	Mailroom Date	Attorney Docket No.
16750435	NOA	06/17/2020	023027-0509068
	INTV.SUM.EX	06/17/2020	023027-0509068
	892	06/17/2020	023027-0509068
	OA.APPENDIX	06/17/2020	023027-0509068

To view your correspondence online or update your email addresses, please visit us anytime at <https://sportal.uspto.gov/secure/myportal/privatepair>.

If you have any questions, please email the Electronic Business Center (EBC) at EBC@uspto.gov with 'e-Office Action' on the subject line or call 1-866-217-9197 during the following hours:

Monday - Friday 6:00 a.m. to 12:00 a.m.

Thank you for prompt attention to this notice,

UNITED STATES PATENT AND TRADEMARK OFFICE
PATENT APPLICATION INFORMATION RETRIEVAL SYSTEM

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)

909 7590 06/17/2020
Pillsbury Winthrop Shaw Pittman, LLP
PO Box 10500
McLean, VA 22102

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

Certificate of Mailing or Transmission

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

(Typed or printed name)

(Signature)

(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
16/750,435	01/23/2020	Michael R. MANZANO	023027-0509068	2793

TITLE OF INVENTION: PRE-FILE-TRANSFER AVAILABILITY INDICATION 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	09/17/2020

EXAMINER	ART UNIT	CLASS-SUBCLASS
CHANNAVAJALA, SRIRAMA T	2158	707-654000

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).	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.	Pillsbury Winthrop Shaw Pittman LLP 1 _____ 2 _____ 3 _____
<input type="checkbox"/> Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.	<input type="checkbox"/> "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.	

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 June 23, 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.: **16/750,435**
ATTORNEY DOCKET NO.: 023027-0509068
FILING DATE: January 23, 2020
CONFIRMATION NO. 2793
ART UNIT: 2158
EXAMINER: Srirama T. CHANNAVAJJALA
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 June 17, 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: June 23, 2020
P.O. Box 10500
McLean, VA 22102
(703) 770-7900

Electronic Patent Application Fee Transmittal

Application Number:	16750435			
Filing Date:	23-Jan-2020			
Title of Invention:	PRE-FILE-TRANSFER AVAILABILITY INDICATION BASED ON PRIORITY METADATA			
First Named Inventor/Applicant Name:	Michael R. MANZANO			
Filer:	Ngai Bing Zhang/Maggie Barham			
Attorney Docket Number:	023027-0509068			
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:	39800158
Application Number:	16750435
International Application Number:	
Confirmation Number:	2793
Title of Invention:	PRE-FILE-TRANSFER AVAILABILITY INDICATION BASED ON PRIORITY 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:	023027-0509068
Receipt Date:	23-JUN-2020
Filing Date:	23-JAN-2020
Time Stamp:	13:25:41
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	E20206MD25590596
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)	023027-0509068_Issue_Fee.pdf	203881 6a4e37cf67962d2aeac49475896be17aa5bbce11	no	1

Warnings:**Information:**

2	Post Allowance Communication - Incoming	023027-0509068_Comments.pdf	137072 8e9674c347789355673aa47f95593f138e18d5bb	no	1
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Warnings:**Information:**

3	Fee Worksheet (SB06)	fee-info.pdf	30301 2763c914029e62f77973249cbf4d486d8f8fdff41	no	2
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Warnings:**Information:**

Total Files Size (in bytes): 371254

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

New Applications Under 35 U.S.C. 111

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

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

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

New International Application Filed with the USPTO as a Receiving Office

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



UNITED STATES PATENT AND TRADEMARK OFFICE

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

APPLICATION NO.	ISSUE DATE	PATENT NO.	ATTORNEY DOCKET NO.	CONFIRMATION NO.
16/750,435	08/25/2020	10754823	023027-0509068	2793

909 7590 08/05/2020

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.

To: docket_ip@pillsburylaw.com,,
From: PAIR_eOfficeAction@uspto.gov
Cc: PAIR_eOfficeAction@uspto.gov
Subject: Private PAIR Correspondence Notification for Customer Number 909

Aug 06, 2020 04:05:42 AM

Dear PAIR Customer:

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

The following USPTO patent application(s) associated with your Customer Number, 909 , have new outgoing correspondence. This correspondence is now available for viewing in Private PAIR.

The official date of notification of the outgoing correspondence will be indicated on the form PTOL-90 accompanying the correspondence.

Disclaimer:

The list of documents shown below is provided as a courtesy and is not part of the official file wrapper. The content of the images shown in PAIR is the official record.

Application	Document	Mailroom Date	Attorney Docket No.
16750435	ISSUE.NTF	08/05/2020	023027-0509068

To view your correspondence online or update your email addresses, please visit us anytime at <https://spotal.uspto.gov/secure/myportal/privatepair>.

If you have any questions, please email the Electronic Business Center (EBC) at EBC@uspto.gov with 'e-Office Action' on the subject line or call 1-866-217-9197 during the following hours:

Monday - Friday 6:00 a.m. to 12:00 a.m.

Thank you for prompt attention to this notice,

UNITED STATES PATENT AND TRADEMARK OFFICE
PATENT APPLICATION INFORMATION RETRIEVAL SYSTEM

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

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.

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

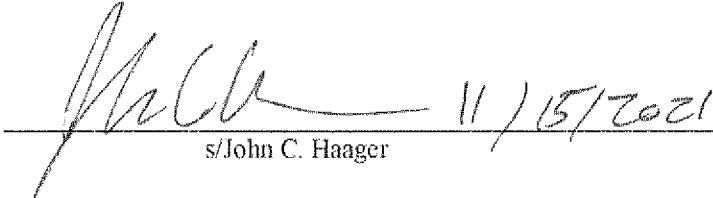
Whereas, I, John C. Haager, hereinafter called assignor, have invented certain improvements in ARCHITECTURE FOR MANAGEMENT OF DIGITAL FILES ACROSS DISTRIBUTED NETWORK and executed an application for Letters Patent of the United States of America therefor; (Application number 12/267,852 (now U.S. Patent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

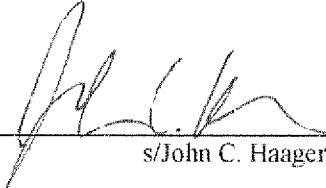
Whereas, I, John C. Haager, hereinafter called assignor, have invented certain improvements in ARCHITECTURE FOR MANAGEMENT OF DIGITAL FILES ACROSS DISTRIBUTED NETWORK and executed an application for Letters Patent of the United States of America therefor; (Application number 14/860,289 (now U.S. Patent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

(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 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:

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)

Assignment

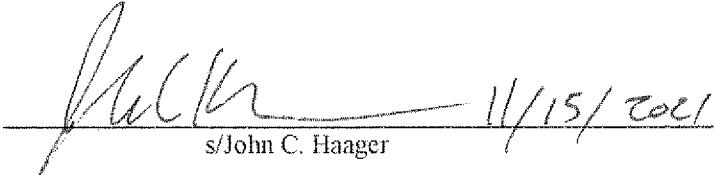
Whereas, I, John C. Haager, hereinafter called assignor, have invented certain improvements in PRE-FILE-TRANSFER UPDATE BASED ON PRIORITIZED METADATA and executed an application for Letters Patent of the United States of America therefor; (Application number 16/750,399 (now U.S. Patent 10,642,787)) and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



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)

Assignment

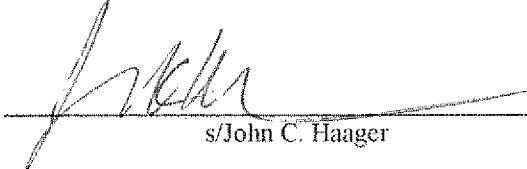
Whereas, I, John C. Haager, hereinafter called assignor, have invented certain improvements in PRE-FILE-TRANSFER AVAILABILITY INDICATION BASED ON PRIORITIZED METADATA and executed an application for Letters Patent of the United States of America therefor; (Application number 16/750,435 (now U.S. Patent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

(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 NETWORKS and ~~and related computer software and documentation~~

~~system is in communication with a second client device associated with the user;~~

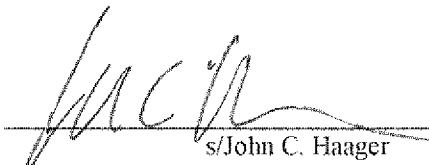
~~receiving, by the server system, from the first client device, first metadata associated with the version of the first file that is generated from the user modifying the content of the first file,~~
~~the first metadata being assigned a first priority greater than a second priority assigned to the~~

(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

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.: 16/750,435

Examiner: CHANNAVAJJALA,
SRIRAMA T.

Confirmation No.: 2793

Patent No.: 10,754,823

Filed: January 23, 2020

Issue Date: September 22, 2015

For: PRE-FILE-TRANSFER AVAILABILITY INDICATION 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;

PETITION UNDER 37 C.F.R. § 1.324 TO CORRECT INVENTORSHIP IN PATENT TO ADD
INVENTOR(S), PURSUANT TO 35 U.S.C. § 256 Attorney Docket No.: 030721
Appln. No.: 16/750,435

(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/82A).

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.				
<input checked="" type="checkbox"/> 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.: 16/750,435

Examiner: CHANNAVAJJALA,
SRIRAMA T.

Confirmation No.: 2793

Patent No.: 10,754,823

Filed: January 23, 2020

Issue Date: September 22, 2015

For: PRE-FILE-TRANSFER AVAILABILITY INDICATION BASED ON PRIORITIZED
METADATA

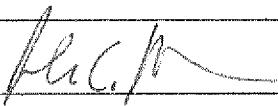
**STATEMENT FROM ADDED INVENTOR IN SUPPORT OF PETITION UNDER 37
C.F.R. § 1.324 TO CORRECT INVENTORSHIP OF PATENT**

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.: 16/750,435 Examiner: CHANNAVAJJALA,
SRIRAMA T.
Confirmation No.: 2793 Patent No.: 10,754,823
Filed: January 23, 2020 Issue Date: September 22, 2015

For: PRE-FILE-TRANSFER AVAILABILITY INDICATION 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. 16/750,435, (now United States Patent 10,754,823), filed on January 23, 2020 for PRE-
FILE-TRANSFER AVAILABILITY INDICATION 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 0546 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.

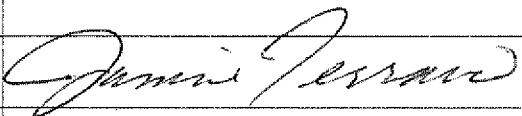
STATEMENT OF ASSIGNEE OF RIGHTS FROM ALL ASSIGNEES OF PARTIES
SUBMITTING A STATEMENT UNDER (1) & (2) IN SUPPORT OF PETITION
UNDER 37 C.F.R. § 1.324 TO CORRECT INVENTORSHIP OF PATENT

Attorney Docket No.: 030721

Appln.No.: 16/750,435

Patent No.: 10,754,823

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	12/16/21		

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.: 16/750,435

Examiner: CHANNAVAJJALA, SRIRAMA
T.

Confirmation No.: 2793

Patent No.: 10,754,823

Filed: January 23, 2020

Issue Date: September 22, 2015

For: PRE-FILE-TRANSFER AVAILABILITY INDICATION 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:	16750435			
Filing Date:	23-Jan-2020			
Title of Invention:	PRE-FILE-TRANSFER AVAILABILITY INDICATION BASED ON PRIORITY METADATA			
First Named Inventor/Applicant Name:	Michael R. MANZANO			
Filer:	Andrew Joseph Taska/Mildred Cabrera			
Attorney Docket Number:	023027-0509068			
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:	44552061
Application Number:	16750435
International Application Number:	
Confirmation Number:	2793
Title of Invention:	PRE-FILE-TRANSFER AVAILABILITY INDICATION BASED ON PRIORITY 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:	023027-0509068
Receipt Date:	17-DEC-2021
Filing Date:	23-JAN-2020
Time Stamp:	16:56:59
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	E2021BGG58131303
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	030721PetitiontoCorrectInventorshipofPatentunder132410754823.pdf	86112 a600217ee021d1483116b4e24881efd56e767a2f	no	2

Warnings:**Information:**

2	Power of Attorney	Executed_Power_of_Attorney.pdf	47433 ed94345a24000a927999e2f85f1337638d51b2fa	no	1
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Warnings:**Information:**

3	Request under Rule 48 correcting inventorship	STATEMENT_OF_ADDED_INVENTOR.pdf	155492 02c40c567525c5a9f706e0a5d1983b2fe43a3d42	no	1
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Warnings:**Information:**

4	Request under Rule 48 correcting inventorship	STATEMENT_OF_ASSIGNEE.pdf	61778 b83de7c48f55845649ec04149d3b79f1c3bf7150	no	2
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Warnings:**Information:**

5	Request under Rule 48 correcting inventorship	STATEMENT_FROM_CURRENT_INVENTOR.pdf	430294 d08c1f3b16e6dc2873a93d279d67306e9ee2f43c	no	1
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Warnings:**Information:**

6	Fee Worksheet (SB06)	fee-info.pdf	38364 51f9ff62c1807788b5a61363b46f1ade900fb0ab	no	2
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Warnings:**Information:**

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

New Applications Under 35 U.S.C. 111

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

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

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

New International Application Filed with the USPTO as a Receiving Office

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



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
16/750,435	01/23/2020	Michael R. MANZANO	023027-0509068

CONFIRMATION NO. 2793

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

POA ACCEPTANCE LETTER



OC000000130598569

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**.

/hsarwari/



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
16/750,435	01/23/2020	Michael R. MANZANO	023027-0509068

CONFIRMATION NO. 2793

POWER OF ATTORNEY NOTICE

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



OC000000130598537

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 applicant. Future correspondence will be mailed to the new address of record(37 CFR 1.33).

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

/hsarwari/

To: docket_ip@pillsburylaw.com,,
From: PAIR_eOfficeAction@uspto.gov
Cc: PAIR_eOfficeAction@uspto.gov
Subject: Private PAIR Correspondence Notification for Customer Number 909

Dec 21, 2021 04:07:11 AM

Dear PAIR Customer:

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

The following USPTO patent application(s) associated with your Customer Number, 909 , have new outgoing correspondence. This correspondence is now available for viewing in Private PAIR.

The official date of notification of the outgoing correspondence will be indicated on the form PTOL-90 accompanying the correspondence.

Disclaimer:

The list of documents shown below is provided as a courtesy and is not part of the official file wrapper. The content of the images shown in PAIR is the official record.

Application	Document	Mailroom Date	Attorney Docket No.
16750435	N570	12/21/2021	023027-0509068
	N570	12/21/2021	023027-0509068

To view your correspondence online or update your email addresses, please visit us anytime at <https://spotal.uspto.gov/secure/myportal/privatepair>.

If you have any questions, please email the Electronic Business Center (EBC) at EBC@uspto.gov with 'e-Office Action' on the subject line or call 1-866-217-9197 during the following hours:

Monday - Friday 6:00 a.m. to 12:00 a.m.

Thank you for prompt attention to this notice,

UNITED STATES PATENT AND TRADEMARK OFFICE
PATENT APPLICATION INFORMATION RETRIEVAL SYSTEM

**CHANGE OF
CORRESPONDENCE ADDRESS**
Patent

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

Patent Number	10,754,823
Issue Date	September 22, 2015
Application Number	16/750,435
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:



Pattee.



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.**

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:	44588794
Application Number:	16750435
International Application Number:	
Confirmation Number:	2793
Title of Invention:	PRE-FILE-TRANSFER AVAILABILITY INDICATION BASED ON PRIORITY 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:	023027-0509068
Receipt Date:	22-DEC-2021
Filing Date:	23-JAN-2020
Time Stamp:	13:50:49
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	030721ChangeofAddress10754823.pdf	114884 a63d9567853721855eeb18b8fc346288fecca9574	no	2

Warnings:

Information:	Total Files Size (in bytes):	114884
<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></p>		
<p>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></p>		
<p>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></p>		
<p>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>		

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/82A).

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)	<u>12/16/21</u>
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.			
<input checked="" type="checkbox"/> Total of <u>1</u> forms are submitted.			

**CHANGE OF
CORRESPONDENCE ADDRESS**
Patent

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

Patent Number	10,754,823
Issue Date	September 22, 2015
Application Number	16/750,435
Filing Date	January 23, 2020
First Named Inventor	Michael R. Manzano
Attorney Docket Number	A271721

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:



Pattee.



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

January 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.**

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:	44717953
Application Number:	16750435
International Application Number:	
Confirmation Number:	2793
Title of Invention:	PRE-FILE-TRANSFER AVAILABILITY INDICATION BASED ON PRIORITY 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:	023027-0509068
Receipt Date:	11-JAN-2022
Filing Date:	23-JAN-2020
Time Stamp:	14:37:35
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	Assignee showing of ownership per 37 CFR 3.73	A271721StatementUnder373.pdf	235196 bf6be9fd3b9af7265beb2841d3c920fbdf0b 29fb	no	3

Warnings:

Information:					
2	Power of Attorney	A271721ExecutedPowerofAttorney.pdf	147589 11c77b5d7542b6913d6a8eb181b05c4d45 bbb764	no	1
Warnings:					
Information:					
3	Change of Address	A271721SecondChangeofAddress10754823.pdf	133848 5852f0976e1769c575bf2b00b55b67ffcd63 2e90	no	2
Warnings:					
Information:					
Total Files Size (in bytes):				516633	
<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>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.</p> <p>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.</p> <p>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.</p>					

STATEMENT UNDER 37 CFR 3.73(c)Applicant/Patent Owner: Topia Technology, Inc.Application No./Patent No.: 10,754,823 Filed/Issue Date: September 22, 2015Titled: PRE-FILE-TRANSFER AVAILABILITY INDICATION 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 0546, 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.

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 /

01/11/2022

Signature

Date

Andrew J. Taska

54,666

Printed or Typed Name

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.



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
16/750,435	01/23/2020	Michael R. MANZANO	A271721

CONFIRMATION NO. 2793 POA ACCEPTANCE LETTER

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



OC000000131130323

Date Mailed: 01/19/2022

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**.

/qtran/

To: PPROCESSING@SUGHRUE.COM,sughrue@sughrue.com,USPTO@sughrue.com
From: PAIR_eOfficeAction@uspto.gov
Cc: PAIR_eOfficeAction@uspto.gov
Subject: Private PAIR Correspondence Notification for Customer Number 23373

Jan 19, 2022 04:15:17 AM

Dear PAIR Customer:

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

The following USPTO patent application(s) associated with your Customer Number, 23373 , have new outgoing correspondence. This correspondence is now available for viewing in Private PAIR.

The official date of notification of the outgoing correspondence will be indicated on the form PTOL-90 accompanying the correspondence.

Disclaimer:

The list of documents shown below is provided as a courtesy and is not part of the official file wrapper. The content of the images shown in PAIR is the official record.

Application	Document	Mailroom Date	Attorney Docket No.
16750435	N570	01/19/2022	A271721

To view your correspondence online or update your email addresses, please visit us anytime at <https://spotal.uspto.gov/secure/myportal/privatepair>.

If you have any questions, please email the Electronic Business Center (EBC) at EBC@uspto.gov with 'e-Office Action' on the subject line or call 1-866-217-9197 during the following hours:

Monday - Friday 6:00 a.m. to 12:00 a.m.

Thank you for prompt attention to this notice,

UNITED STATES PATENT AND TRADEMARK OFFICE
PATENT APPLICATION INFORMATION RETRIEVAL SYSTEM

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**

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		DEFENDANT
Topia Technology, Inc.		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			
1						
2						
3						
4						
5						

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

DECISION/JUDGEMENT

CLERK	(BY) DEPUTY CLERK	DATE
-------	-------------------	------

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

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**

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 11,003,622	May 11, 2021	Topia Technology, Inc.
2		
3		
4		
5		

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			
1						
2						
3						
4						
5						

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

DECISION/JUDGEMENT

CLERK	(BY) DEPUTY CLERK	DATE
-------	-------------------	------

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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P.O. Box 1450
Alexandria, VA 22313-1450

**REPORT ON THE
FILING OR DETERMINATION OF
AN ACTION REGARDING A PATENT
OR TRADEMARK**

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		DEFENDANT
Topia Technology, Inc.		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.

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		
1					
2					
3					
4					
5					

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

DECISION/JUDGEMENT

CLERK	(BY) DEPUTY CLERK	DATE
-------	-------------------	------

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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**REPORT ON THE
FILING OR DETERMINATION OF
AN ACTION REGARDING A PATENT
OR TRADEMARK**

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.
2		
3		
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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
PATENT OR TRADEMARK NO.		DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK		
1					
2					
3					
4					
5					

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

DECISION/JUDGEMENT

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

<p>TO:</p> <p>Mail Stop 8 Director of the U.S. Patent and Trademark Office P.O. Box 1450 Alexandria, VA 22313-1450</p>	<p>REPORT ON THE FILING OR DETERMINATION OF AN ACTION REGARDING A PATENT OR TRADEMARK</p>
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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 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		DEFENDANT
TOPIA TECHNOLOGY, INC.		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			
1					
2					
3					
4					
5					

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

DECISION/JUDGEMENT

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

ADDENDUM TO AO 120 (ADDITIONAL PATENTS)

Docket No.		Date Filed 12/27/2021	U.S. District Court for the District of Delaware
PLAINTIFF		DEFENDANT	
TOPIA TECHNOLOGY, INC.		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			