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APPLICATION NO.	ISSUE DATE	PATENT NO.	ATTORNEY DOCKET NO.	CONFIRMATION NO.
14/982,981	04/24/2018	9954854	1402374.00032	6268

26285 7590 04/04/2018
K&L GATES LLP-Pittsburgh
210 SIXTH AVENUE
PITTSBURGH, PA 15222-2613

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):

Shaunt M. Sarkissian, Cambridge, MA;

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

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K&L GATES

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PALO ALTO, CA 94304
T +1 650 798 6734 F +1 650 798 6701 klgates.com

OIPE AKIMA-14
FEB 0 8 2018
PATENT & TRADEMARK OFFICE

To:	Mail Stop Issue Fee	From:	Jordan A. Kwan
Fax:	(571) 273-2885	Pages:	6 (includes cover sheet)
Phone:		Date:	February 7, 2018
Re:	Issue Fee Payment for 14/982,981		

Please find enclosed the Electronic Acknowledgement Receipt and the Issue Fee Transmittal as filed with the Patent Office on February 7, 2018. The USPTO charged the deposit account on 2/7/18, in the amount of $480.00, for the issue fee payment. As of 1/16/18, the Issue Fee Payment is $500.00. Please charge deposit account no. 02-1818 the difference in the amount of $20.00.

Maintenance Fee data does not exist

Fee Payment History

Accounting Date	Fee Code	Fee Amount	Fee Quantity	Total Amount	Mailroom Date	Payment Method
02-08-2018	2501	$480.00	1	$480.00	02-07-2018	DA021818

Please contact Jordan A. Kwan with any questions or comments at (650) 798-6734.

Respectfully submitted,

Date: February 7, 2018

/Jordan A. Kwan/
Jordan A. Kwan
Reg. No. 67,954

K&L GATES LLP
620 Hansen Way
Palo Alto, CA 94304

Telephone: (650) 798-6734
Fax: (650) 798-6701
E-Mail: jordan.kwan@klgates.com

OPAP AKIMA-14 FEB 0 8 2018 PATENT & TRADEMARK OFFICE

Electronic Acknowledgement Receipt

EFS ID:	31731208
Application Number:	14982981
International Application Number:	
Confirmation Number:	6268
Title of Invention:	FILE FORMAT AND PLATFORM FOR STORAGE AND VERIFICATION OF CREDENTIALS
First Named Inventor/Applicant Name:	Shaunt M. Sarkissian
Customer Number:	26285
Filer:	Jordan Anthony Kwan/Michelle Begay
Filer Authorized By:	Jordan Anthony Kwan
Attorney Docket Number:	1402374.00032
Receipt Date:	07-FEB-2018
Filing Date:	29-DEC-2015
Time Stamp:	17:43:51
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	DA
Payment was successfully received in RAM	$480
RAM confirmation Number	020818INTEFSW00004218021818
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)	1402374_00032_Issue_Fee_Transmittal.pdf	202585 b3ce38e502a3b42e00f406223aa6dee18bd6460d	no	1
Warnings:					
Information:					
2	Fee Worksheet (SB06)	fee-info.pdf	30795 a16aab601a973f7ba00fb203a45f01d03f6d25cd	no	2
Warnings:					
Information:					
		Total Files Size (in bytes):	233380		

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.
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New International Application Filed with the USPTO as a Receiving Office
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Electronic Patent Application Fee Transmittal

Application Number:	14982981
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First Named Inventor/Applicant Name:	Shaunt M. Sarkisslan
Filer:	Jordan Anthony Kwan/Michelle Begay
Attorney Docket Number:	1402374.00032

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	480	480

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Extension-of-Time:				
Miscellaneous:				
			Total in USD ($)	**480**

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PATENT & TRADEMARK OFFICE

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE
Commissioner for Patents
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Alexandria, Virginia 22313-1450
or **Fax** (571)-273-2885

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

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

26285 7590 01/11/2018
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210 SIXTH AVENUE
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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 facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.

Michelle Begay	(Depositor's name)
/Michelle Begay/	(Signature)
February 7, 2018	(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
14/982,981	12/29/2015	Shaunt M. Sarkissian	1402374.00032	6268

TITLE OF INVENTION: FILE FORMAT AND PLATFORM FOR STORAGE AND VERIFICATION OF CREDENTIALS

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	SMALL	$480	$0	$0	$480	04/11/2018

EXAMINER	ART UNIT	CLASS-SUBCLASS
NIPA, WASIKA	2433	726-006000

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).
- ☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.
- ☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.

2. For printing on the patent front page, list
(1) The names of up to 3 registered patent attorneys or agents OR, alternatively,
(2) The name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.

1 K&L Gates LLP
2 Jordan A. Kwan
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 has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE: Cortex MCP Inc.

(B) RESIDENCE: (CITY and STATE OR COUNTRY): Reno, Nevada

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

4a. The following fee(s) are submitted:
- ☒ Issue Fee
- ☐ Publication Fee (No small entity discount permitted)
- ☐ Advance Order - # of Copies _____

4b. Payment of Fee(s): (Please first reapply any previously paid Issue fee shown above)
- ☐ A check is enclosed.
- ☐ Payment by credit card. Form PTO-2038 is attached.
- ☐ The director is hereby authorized to charge the required fee(s), any deficiency, or credits any overpayment, to Deposit Account Number 021818 (enclose an extra copy of this form).

5. Change in Entity Status (from status indicated above)
- ☐ Applicant certifying micro entity status. See 37 CFR 1.29 — 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.
- ☐ Applicant asserting small entity status. See 37 CFR 1.27 — 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.
- ☐ Applicant changing to regular undiscounted fee 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 /Jordan A. Kwan/ Date February 7, 2018

Typed or printed name Jordan A. Kwan Registration No. 67954

PAGE 6/6 * RCVD AT 2/8/2018 11:09:21 AM [Eastern Standard Time] * SVR:W-PTOFAX-002/17 * DNIS:2732885 * CSID: * DURATION (mm-ss):01-35

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail **Mail Stop ISSUE FEE**
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P.O. Box 1450
Alexandria, Virginia 22313-1450
or Fax (571)-273-2885

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

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

26285 7590 01/11/2018
K&L GATES LLP-Pittsburgh
210 SIXTH AVENUE
PITTSBURGH, PA 15222-2613

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Certificate of Mailing or Transmission
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Michelle Begay	(Depositor's name)
/Michelle Begay/	(Signature)
February 7, 2018	(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
14/982,981	12/29/2015	Shaunt M. Sarkissian	1402374.00032	6268

TITLE OF INVENTION: FILE FORMAT AND PLATFORM FOR STORAGE AND VERIFICATION OF CREDENTIALS

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	SMALL	$480	$0	$0	$480	04/11/2018

EXAMINER	ART UNIT	CLASS-SUBCLASS
NIPA, WASIKA	2433	726-006000

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).
☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.
☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. **Use of a Customer Number is required.**

2. For printing on the patent front page, list
(1) The names of up to 3 registered patent attorneys or agents OR, alternatively,
(2) The name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.

1 K&L Gates LLP
2 Jordan A. Kwan
3

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(B) RESIDENCE: (CITY and STATE OR COUNTRY): Reno, Nevada

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

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☒ Issue Fee
☐ Publication Fee (No small entity discount permitted)
☐ Advance Order - # of Copies _____

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☐ Applicant asserting small entity status. See 37 CFR 1.27 — 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.
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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 /Jordan A. Kwan/ Date February 7, 2018
Typed or printed name Jordan A. Kwan Registration No. 67954

Electronic Patent Application Fee Transmittal

Application Number:	14982981
Filing Date:	29-Dec-2015
Title of Invention:	FILE FORMAT AND PLATFORM FOR STORAGE AND VERIFICATION OF CREDENTIALS
First Named Inventor/Applicant Name:	Shaunt M. Sarkissian
Filer:	Jordan Anthony Kwan/Michelle Begay
Attorney Docket Number:	1402374.00032

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	480	480

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Extension-of-Time:				
Miscellaneous:				
			Total in USD ($)	**480**

Electronic Acknowledgement Receipt

EFS ID:	31731208
Application Number:	14982981
International Application Number:	
Confirmation Number:	6268
Title of Invention:	FILE FORMAT AND PLATFORM FOR STORAGE AND VERIFICATION OF CREDENTIALS
First Named Inventor/Applicant Name:	Shaunt M. Sarkissian
Customer Number:	26285
Filer:	Jordan Anthony Kwan/Michelle Begay
Filer Authorized By:	Jordan Anthony Kwan
Attorney Docket Number:	1402374.00032
Receipt Date:	07-FEB-2018
Filing Date:	29-DEC-2015
Time Stamp:	17:43:51
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	DA
Payment was successfully received in RAM	$480
RAM confirmation Number	020818INTEFSW00004218021818
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)	1402374_00032_Issue_Fee_Transmittal.pdf	202585 b3ce38e502a3b42e60f406223ea6dee18bd6460d	no	1
Warnings:					
Information:					
2	Fee Worksheet (SB06)	fee-info.pdf	30795 a16aeb801a373f7ba00fb203e45f01d0388d25ed	no	2
Warnings:					
Information:					
		Total Files Size (in bytes):	233380		

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
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New International Application Filed with the USPTO as a Receiving Office
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UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
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Alexandria, Virginia 22313-1450
www.uspto.gov

NOTICE OF ALLOWANCE AND FEE(S) DUE

26285 7590 01/11/2018
K&L GATES LLP-Pittsburgh
210 SIXTH AVENUE
PITTSBURGH, PA 15222-2613

EXAMINER
NIPA, WASIKA

ART UNIT	PAPER NUMBER
2433	

DATE MAILED: 01/11/2018

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
14/982,981	12/29/2015	Shaunt M. Sarkissian	1402374.00032	6268

TITLE OF INVENTION: FILE FORMAT AND PLATFORM FOR STORAGE AND VERIFICATION OF CREDENTIALS

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	SMALL	$480	$0	$0	$480	04/11/2018

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), to: Mail **Mail Stop ISSUE FEE**
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(Depositor's name)
(Signature)
(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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1 _____
2 _____
3 _____

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)
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Please check the appropriate assignee category or categories (will not be printed on the patent) : ☐ Individual ☐ Corporation or other private group entity ☐ Government

4a. The following fee(s) are submitted:
- ☐ Issue Fee
- ☐ Publication Fee (No small entity discount permitted)
- ☐ Advance Order - # of Copies _____

4b. Payment of Fee(s): **(Please first reapply any previously paid issue fee shown above)**
- ☐ A check is enclosed.
- ☐ Payment by credit card. Form PTO-2038 is attached.
- ☐ The director is hereby authorized to charge the required fee(s), any deficiency, or credits any overpayment, to Deposit Account Number _____ (enclose an extra copy of this form).

5. **Change in Entity Status** (from status indicated above)
- ☐ Applicant certifying micro entity status. See 37 CFR 1.29 — 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.
- ☐ Applicant asserting small entity status. See 37 CFR 1.27 — 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.
- ☐ Applicant changing to regular undiscounted fee status. — NOTE: Checking this box will be taken to be a notification of loss of entitlement to small or micro entity status, as applicable.

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

Authorized Signature _____ Date _____

Typed or printed name _____ Registration No. _____

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
14/982,981	12/29/2015	Shaunt M. Sarkissian	1402374.00032	6268

26285 7590 01/11/2018
K&L GATES LLP-Pittsburgh
210 SIXTH AVENUE
PITTSBURGH, PA 15222-2613

EXAMINER
NIPA, WASIKA

ART UNIT	PAPER NUMBER
2433	

DATE MAILED: 01/11/2018

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

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

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

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

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

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

The information collected by PTOL-85 Part B is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450. Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Privacy Act Statement

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

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

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

Notice of Allowability	Application No. 14/982,981	Applicant(s) SARKISSIAN, SHAUNT M.	
	Examiner WASIKA NIPA	Art Unit 2433	AIA (First Inventor to File) Status No

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

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

1. ☒ This communication is responsive to *Amendment filed on 10/23/2017*.
   ☐ 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 *1, 3-9, 11-17, 19-20*. As a result of the allowed claim(s), you may be eligible to benefit from the **Patent Prosecution Highway** program at a participating intellectual property office for the corresponding application. For more information, please see http://www.uspto.gov/patents/init_events/pph/index.jsp or send an inquiry to PPHfeedback@uspto.gov.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

   Certified copies:

   a) ☐ All b) ☐ Some *c) ☐ None of the:
   1. ☐ Certified copies of the priority documents have been received.
   2. ☐ Certified copies of the priority documents have been received in Application No. _____ .
   3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

   * Certified copies not received: _____.

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

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

   Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date _____
3. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
4. ☒ Interview Summary (PTO-413), Paper No./Mail Date _____ .
5. ☒ Examiner's Amendment/Comment
6. ☒ Examiner's Statement of Reasons for Allowance
7. ☐ Other _____.

/WASIKA NIPA/
Examiner, Art Unit 2433

Examiner-Initiated Interview Summary	Application No.	Applicant(s)	
	14/982,981	SARKISSIAN, SHAUNT M.	
	Examiner	Art Unit	
	WASIKA NIPA	2433	

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

(1) *WASIKA NIPA*.

(2) _____.

(3)*Jordan Kwan*.

(4)_____.

Date of Interview: *20 November 2017*.

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 and 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...)

Examiner called applicant's representive to discuss the current status of claim. In attempt to accelerate the prosecution process, examiner proposed to further amend the independent claim 1 to incorporate the limitation of dependent claim 2 to positively recite the limitations in detail and to clarify the claim invention over prior art of reference. Examiner mentioned that the amendment is also required to overcome the double patenting rejection. Applicant pointed out that the patented case deals with steps that are performed by officially verifiable electronic representation generation and verification engine, however the current application deals with the steps that are performed by over file verifying device. Examiner mentioned that similar amendment is required for other independent claims. Examiner also asked to file terminal disclaimer to overcome the double patenting rejection.

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

/WASIKA NIPA/ Examiner, Art Unit 2433	

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

DETAILED ACTION

1. This is in response to the communication filed on 10/23/2017. Claims 1-20 were pending in the application. Claims 1, 3-9, 11-17, 19-20 have been allowed. Claims 2, 10 and 18 have been cancelled.

TERMINAL DISCLAIMER

2. The terminal disclaimer filed on 11/22/2017 disclaiming the terminal portion of any patent granted on this application which would extend beyond the expiration date of Patent No. 9,251,531 has been reviewed and is accepted. The terminal disclaimer has been recorded.

Examiner's Amendment

3. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee. Authorization for this examiner's amendment was given in a telephone conversation with Jordan Kwan on November 20th, 2017 followed by an e-mail.

The application has been amended as follows:

1. (Currently Amended) A computer-implemented method comprising:

accessing, by an officially verifiable electronic representation (OVER) file verifying device, [[an]]a first OVER file stored on [[an]]a first OVER file client device, the first OVER file comprising:

a first virtual representation of an original credential of a user that has been verified by an issuing agency to be [[an]]a first official representation of the original credential of the user for proving the user's identity or qualifications, based on information associated with the original credential of the user, wherein the first OVER file is itself a first new credential of the user;

the first OVER file generated by an OVER engine configured to:

store the information associated with the original credential of the user; and

transmit the first generated OVER file to the first OVER file client device;

transmitting, by the OVER file verifying device, to the OVER engine, a first verifying request to verify that the first OVER file accessed from the first OVER file client device authenticates the user;

receiving, by the OVER file verifying device, [[an]]a first authentication message comprising [[an]]a first indication of whether a first scan associated with the first OVER file on the first OVER file client device of the user corresponds to the information associated with the original credential of the user that is stored in the OVER engine; [[and]]

outputting a first status indicator expressing whether the first OVER file authenticates the user;

accessing, by the OVER file verifying device, a second OVER file stored on a second OVER file client device of the user, the second OVER file comprising a second virtual representation of the original credential that has been verified by the issuing agency to be a second official representation of the original credential that is invalid for use in the first OVER file client device for authenticating the user, wherein the second OVER file is itself a second new credential over the first OVER file and the original credential;

transmitting, by the OVER file verifying device, to the OVER engine, a second verifying request to verify that the second OVER file scanned at the second client device authenticates the user;

receiving, by the OVER file verifying device, a second authentication message comprising a second indication of whether the second scan associated with the second OVER file on the device of the user corresponds to the information associated with the original credential of the user that is stored in the OVER engine; and

outputting a second status indicator expressing whether the second OVER file authenticates the user.

2. (Canceled)

3. (Currently Amended) The computer-implemented method of claim 1, wherein the first OVER file further comprises a device identifier for the original credential configured to limit the first OVER file, for use in authenticating the user using the information of the original credential, to the first OVER file client device.

4. (Currently Amended) The computer-implemented method of claim 1, wherein the first OVER file further comprises user-specific information.

5. (Original) The computer-implemented method of claim 4, wherein the user specific-information comprises at least one of:

biometric information, location information, a password, or a device identifier.

6. (Currently Amended) The computer-implemented method of claim 1, wherein the first OVER file comprises a portion of the original credential stored by the OVER engine.

7. (Currently Amended) The computer-implemented method of claim 1, wherein the first authentication message comprises an indication that the first OVER file is expired.

8. (Currently Amended) The computer-implemented method of claim 1, further comprising accessing, by the verifying device, from the first OVER file client device, additional credential information associated with the first OVER file indicating whether a secondary condition for authorizing the user has been satisfied.

9. (Currently Amended) An officially verifiable electronic representation (OVER) file verifying device comprising:

a hardware processor;

a memory unit operatively coupled to the hardware processor, the memory unit configured to store information associated with an original credential of a user and a plurality of instructions, wherein the instructions are configured to cause the hardware processor to perform operations comprising:

accessing [[an]]a first OVER file stored on [[an]]a first OVER file client device, the first OVER file comprising:

a first virtual representation of the original credential that has been verified by an issuing agency to be [[an]]a first official representation of the original credential of the user for proving the user's identity or qualifications, based on information associated with the original credential of the user, wherein the first OVER file is itself a first new credential of the user;

the first OVER file generated by an OVER engine configured to:

store the information associated with the original credential of the user; and

transmit the first generated OVER file to the first OVER file client device;

transmitting to the OVER engine a first verifying request to verify that the first OVER file accessed from the first OVER file client device authenticates the user;

receiving [[an]]a first authentication message comprising [[an]]a first indication of whether a first scan associated with the first OVER file on the first OVER file client device of the user corresponds to the information associated with the original credential of the user that is stored in the OVER engine; [[and]]

outputting a first status indicator expressing whether the first OVER file authenticates the user;

accessing a second OVER file stored on a second OVER file client device of the user, the second OVER file comprising a second virtual representation of the original credential that has been verified by the issuing agency to be a second official representation of the

original credential that is invalid for use in the first OVER file client device for authenticating the user, wherein the second OVER file is itself a second new credential over the first OVER file and the original credential;

transmitting to the OVER engine a second verifying request to verify that the second OVER file scanned at the second client device authenticates the user;

receiving a second authentication message comprising a second indication of whether the second scan associated with the second OVER file on the device of the user corresponds to the information associated with the original credential of the user that is stored in the OVER engine; and

outputting a second status indicator expressing whether the second OVER file authenticates the user.

10. (Canceled)

11. (Currently Amended) The device of claim 9, wherein the first OVER file further comprises a device identifier for the original credential configured to limit the first OVER file, for use in authenticating the user using the information of the original credential, to the first OVER file client device.

12. (Currently Amended) The device of claim 9, wherein the first OVER file further comprises user-specific information.

13. (Original) The device of claim 12, wherein the user specific-information comprises at least one of:

biometric information, location information, a password, or a device identifier.

14. (Currently Amended) The device of claim 9, wherein the first OVER file comprises a portion of the original credential stored by the OVER engine.

15. (Currently Amended) The device of claim 9, wherein the first authentication message comprises an indication that the first OVER file is expired.

16. (Currently Amended) The device of claim 9, wherein the operations further ~~comprising~~ comprise accessing~~, by the verifying device~~, from the first OVER file client device, additional credential information associated with the first OVER file indicating whether a secondary condition for authorizing the user has been satisfied.

17. (Currently Amended) A non-transitory computer-readable medium comprising instructions that, when executed by a processor, cause the processor to perform operations comprising:

accessing [[an]]a first OVER file stored on [[an]]a first OVER file client device, the first OVER file comprising:

a first virtual representation of an original credential that has been verified by an issuing agency to be [[an]]a first official representation of the original credential of a user for proving the user's identity or qualifications, based on information associated with the original credential of the user, wherein the first OVER file is itself a first new credential of the user;

the first OVER file generated by an OVER engine configured to:

store the information associated with the original credential of the user; and

transmit the first generated OVER file to the first OVER file client device;

transmitting to the OVER engine a first verifying request to verify that the first OVER file accessed from the first OVER file client device authenticates the user;

receiving [[an]]a first authentication message comprising [[an]]a first indication of whether a first scan associated with the first OVER file on the first OVER file client device of the user corresponds to the information associated with the original credential of the user that is stored in the OVER engine; [[and]]

outputting a first status indicator expressing whether the first OVER file authenticates the user;

accessing a second OVER file stored on a second OVER file client device of the user, the second OVER file comprising a second virtual representation of the original credential that has been verified by the issuing agency to be a second official representation of the

original credential that is invalid for use in the first OVER file client device for authenticating the user, wherein the second OVER file is itself a second new credential over the first OVER file and the original credential;

transmitting to the OVER engine a second verifying request to verify that the second OVER file scanned at the second client device authenticates the user;

receiving a second authentication message comprising a second indication of whether the second scan associated with the second OVER file on the device of the user corresponds to the information associated with the original credential of the user that is stored in the OVER engine; and

outputting a second status indicator expressing whether the second OVER file authenticates the user.

18. (Canceled)

19. (Currently Amended) The computer readable medium of claim 17, wherein the OVER file further comprises a device identifier for the original credential configured to limit the first OVER file, for use in authenticating the user using the information of the original credential, to the OVER file client device.

20. (Currently Amended) The computer readable medium of claim 17, wherein the first OVER file further comprises user-specific information comprising at least one of:

biometric information, location information, a password, or a device identifier.

EXAMINER'S REASONS FOR ALLOWANCE

3. The following is an examiner's statement of reasons for allowances:

The closest prior art of record, Kang teaches an electronic document repository system that includes an authentication module, a registration module, a reading module,

an issuing module and a certification module where the electronic document repository system connected to a user terminal over a network for guaranteeing authentication and issuing authentication certificate. Bhatnagar teaches generating and transmitting a barcode to the client and capturing the barcode with a portable communication device to decode and decrypt the third party server credentials to obtain user information. Bhatnagar uses one time passwords and out of band communications channels.

Combination of Kang and Bhatnagar do not teach "the OVER file comprising a virtual representation of an original credential of a user that has been verified by an issuing agency to be an official representation of the original credential of the user for proving the user's identity for qualifications, based on information associated with the original credential of the user, wherein the OVER file itself a new credential of the user" and "receiving an authentication message comprising an indication of whether a scan associated with the OVER file on the client device corresponds to the information associated with the original credential of the user" as recited in claim 1. The combination of Kang and Bhatnagar also don't teach "accessing a second OVER file stored on a second OVER file client device of the user, the second OVER file comprising a second virtual representation of the original credential that has been verified by the issuing agency to be a second official representation of the original credential that is invalid for use in the first OVER file client device for authenticating the user, wherein the second OVER file is itself a second new credential over the first OVER file and the original credential", as recites in claim 1.

Similar reasoning is applied to independent claims 9 and 17.

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

Conclusion

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to WASIKA NIPA whose telephone number is (571)272-8923. The examiner can normally be reached on M-F (7:30 - 5:00).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, JEFFRY PWU can be reached on 571-272-6798. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/WASIKA NIPA/

Examiner, Art Unit 2433

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	14982981	SARKISSIAN, SHAUNT M.
	Examiner	**Art Unit**
	WASIKA NIPA	2433

CPC						
Symbol					**Type**	**Version**
H04L		63	0	083	F	2013-01-01
G06Q		30	0	0251	I	2013-01-01
H04L		63	0	08	I	2013-01-01
H04L		2463	0	102	A	2013-01-01
G06Q		20	0	3274	I	2013-01-01
G06Q		20	0	3821	I	2013-01-01
H04L		63	0	0861	I	2013-01-01
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CPC Combination Sets							
Symbol				**Type**	**Set**	**Ranking**	**Version**
			0				
			0				

(Assistant Examiner)	(Date)	**Total Claims Allowed:** 17	
/WASIKA NIPA/ Examiner.Art Unit 2433	11/30/2017	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	1

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	14982981	SARKISSIAN, SHAUNT M.
	Examiner	**Art Unit**
	WASIKA NIPA	2433

US ORIGINAL CLASSIFICATION		INTERNATIONAL CLASSIFICATION	
CLASS	SUBCLASS	CLAIMED	NON-CLAIMED
726	6	H 0 4 L 9 / 00 (2006.01.01)	

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

(Assistant Examiner)	(Date)	Total Claims Allowed: 17	
/WASIKA NIPA/ Examiner.Art Unit 2433	11/30/2017	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	1

U.S. Patent and Trademark Office

Part of Paper No. 20171128

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	14982981	SARKISSIAN, SHAUNT M.
	Examiner	**Art Unit**
	WASIKA NIPA	2433

☐ Claims renumbered in the same order as presented by applicant ☐ CPA ☒ T.D. ☐ R.1.47

Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original
1	1	15	17												
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		Total Claims Allowed:	
(Assistant Examiner)	(Date)	17	
/WASIKA NIPA/ Examiner.Art Unit 2433	11/30/2017	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	1

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NOTICE OF ALLOWANCE AND FEE(S) DUE

26285 7590 12/12/2017
K&L GATES LLP-Pittsburgh
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PITTSBURGH, PA 15222-2613

EXAMINER
NIPA, WASIKA

ART UNIT	PAPER NUMBER
2433	

DATE MAILED: 12/12/2017

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
14/982,981	12/29/2015	Shaunt M. Sarkissian	1402374.00032	6268

TITLE OF INVENTION: FILE FORMAT AND PLATFORM FOR STORAGE AND VERIFICATION OF CREDENTIALS

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	SMALL	$480	$0	$0	$480	03/12/2018

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), to: Mail **Mail Stop ISSUE FEE**
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450
or Fax (571)-273-2885

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

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

26285 7590 12/12/2017
K&L GATES LLP-Pittsburgh
210 SIXTH AVENUE
PITTSBURGH, PA 15222-2613

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 facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.

(Depositor's name)
(Signature)
(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
14/982,981	12/29/2015	Shaunt M. Sarkissian	1402374.00032	6268

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nonprovisional	SMALL	$480	$0	$0	$480	03/12/2018

EXAMINER	ART UNIT	CLASS-SUBCLASS
NIPA, WASIKA	2433	726-006000

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).
❑ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.
❑ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. **Use of a Customer Number is required.**

2. For printing on the patent front page, list
(1) The names of up to 3 registered patent attorneys or agents OR, alternatively,
(2) The name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.
1_____
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 has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE (B) RESIDENCE: (CITY and STATE OR COUNTRY)

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

4a. The following fee(s) are submitted:
❑ Issue Fee
❑ Publication Fee (No small entity discount permitted)
❑ Advance Order - # of Copies _____

4b. Payment of Fee(s): **(Please first reapply any previously paid issue fee shown above)**
❑ A check is enclosed.
❑ Payment by credit card. Form PTO-2038 is attached.
❑ The director is hereby authorized to charge the required fee(s), any deficiency, or credits any overpayment, to Deposit Account Number _____ (enclose an extra copy of this form).

5. **Change in Entity Status** (from status indicated above)
❑ Applicant certifying micro entity status. See 37 CFR 1.29 — 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.
❑ Applicant asserting small entity status. See 37 CFR 1.27 — 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.
❑ Applicant changing to regular undiscounted fee status. — NOTE: Checking this box will be taken to be a notification of loss of entitlement to small or micro entity status, as applicable.

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

Authorized Signature _____ Date _____

Typed or printed name _____ Registration No. _____

UNITED STATES PATENT AND TRADEMARK OFFICE

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

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

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

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

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

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

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

The information collected by PTOL-85 Part B is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450. Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Privacy Act Statement

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

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

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

Examiner-Initiated Interview Summary	Application No.	Applicant(s)	
	14/982,981	SARKISSIAN, SHAUNT M.	
	Examiner	Art Unit	
	WASIKA NIPA	2433	

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

(1) *WASIKA NIPA*.

(2) _____.

(3) *Jordan Kwan*.

(4) _____.

Date of Interview: *20 November 2017*.

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 and 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...)

Examiner called applicant's representive to discuss the current status of claim. In attempt to accelerate the prosecution process, examiner proposed to further amend the independent claim 1 to incorporate the limitation of dependent claim 2 to positively recite the limitations in detail and to clarify the claim invention over prior art of reference. Examiner mentioned that the amendment is also required to overcome the double patenting rejection. Applicant pointed out that the patented case deals with steps that are performed by officially verifiable electronic representation generation and verification engine, however the current application deals with the steps that are performed by over file verifying device. Examiner mentioned that similar amendment is required for other independent claims. Examiner also asked to file terminal disclaimer to overcome the double patenting rejection.

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

/WASIKA NIPA/ Examiner, Art Unit 2433	

Notice of Allowability	Application No. 14/982,981	Applicant(s) SARKISSIAN, SHAUNT M.	
	Examiner WASIKA NIPA	Art Unit 2433	AIA (First Inventor to File) Status No

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

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

1. ☒ This communication is responsive to *Amendment filed on 10/23/2017*.
   ☐ 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 *1, 3-9, 11-17, 19-20*. As a result of the allowed claim(s), you may be eligible to benefit from the **Patent Prosecution Highway** program at a participating intellectual property office for the corresponding application. For more information, please see http://www.uspto.gov/patents/init_events/pph/index.jsp or send an inquiry to PPHfeedback@uspto.gov.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

   Certified copies:

   a) ☐ All b) ☐ Some *c) ☐ None of the:
   1. ☐ Certified copies of the priority documents have been received.
   2. ☐ Certified copies of the priority documents have been received in Application No. _____ .
   3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

   * Certified copies not received: _____.

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

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

   Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date _____
3. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
4. ☒ Interview Summary (PTO-413), Paper No./Mail Date _____ .
5. ☒ Examiner's Amendment/Comment
6. ☒ Examiner's Statement of Reasons for Allowance
7. ☐ Other _____.

/WASIKA NIPA/
Examiner, Art Unit 2433

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

DETAILED ACTION

1. This is in response to the communication filed on 10/23/2017. Claims 1-20 were pending in the application. Claims 1, 3-9, 11-17, 19-20 have been allowed. Claims 2, 10 and 18 have been cancelled.

TERMINAL DISCLAIMER

2. The terminal disclaimer filed on 11/22/2017 disclaiming the terminal portion of any patent granted on this application which would extend beyond the expiration date of Patent No. 9,251,531 has been reviewed and is accepted. The terminal disclaimer has been recorded.

Examiner's Amendment

3. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee. Authorization for this examiner's amendment was given in a telephone conversation with Jordan Kwan on November 20th, 2017 followed by an e-mail.

The application has been amended as follows:

1. (Currently Amended) A computer-implemented method comprising:

accessing, by an officially verifiable electronic representation (OVER) file verifying device, [[an]]a first OVER file stored on [[an]]a first OVER file client device, the first OVER file comprising:

a first virtual representation of an original credential of a user that has been verified by an issuing agency to be [[an]]a first official representation of the original credential of the user for proving the user's identity or qualifications, based on information associated with the original credential of the user, wherein the first OVER file is itself a first new credential of the user;

the first OVER file generated by an OVER engine configured to:

store the information associated with the original credential of the user; and

transmit the first generated OVER file to the first OVER file client device;

transmitting, by the OVER file verifying device, to the OVER engine, a first verifying request to verify that the first OVER file accessed from the first OVER file client device authenticates the user;

receiving, by the OVER file verifying device, [[an]]a first authentication message comprising [[an]]a first indication of whether a first scan associated with the first OVER file on the first OVER file client device of the user corresponds to the information associated with the original credential of the user that is stored in the OVER engine; [[and]]

outputting a first status indicator expressing whether the first OVER file authenticates the user;

accessing, by the OVER file verifying device, a second OVER file stored on a second OVER file client device of the user, the second OVER file comprising a second virtual representation of the original credential that has been verified by the issuing agency to be a second official representation of the original credential that is invalid for use in the first OVER file client device for authenticating the user, wherein the second OVER file is itself a second new credential over the first OVER file and the original credential;

transmitting, by the OVER file verifying device, to the OVER engine, a second verifying request to verify that the second OVER file scanned at the second client device authenticates the user;

receiving, by the OVER file verifying device, a second authentication message comprising a second indication of whether the second scan associated with the second OVER file on the device of the user corresponds to the information associated with the original credential of the user that is stored in the OVER engine; and

outputting a second status indicator expressing whether the second OVER file authenticates the user.

2. (Canceled)

3. (Currently Amended) The computer-implemented method of claim 1, wherein the first OVER file further comprises a device identifier for the original credential configured to limit the first OVER file, for use in authenticating the user using the information of the original credential, to the first OVER file client device.

4. (Currently Amended) The computer-implemented method of claim 1, wherein the first OVER file further comprises user-specific information.

5. (Original) The computer-implemented method of claim 4, wherein the user specific-information comprises at least one of:

biometric information, location information, a password, or a device identifier.

6. (Currently Amended) The computer-implemented method of claim 1, wherein the first OVER file comprises a portion of the original credential stored by the OVER engine.

7. (Currently Amended) The computer-implemented method of claim 1, wherein the first authentication message comprises an indication that the first OVER file is expired.

8. (Currently Amended) The computer-implemented method of claim 1, further comprising accessing, by the verifying device, from the first OVER file client device, additional credential information associated with the first OVER file indicating whether a secondary condition for authorizing the user has been satisfied.

9. (Currently Amended) An officially verifiable electronic representation (OVER) file verifying device comprising:

a hardware processor;

a memory unit operatively coupled to the hardware processor, the memory unit configured to store information associated with an original credential of a user and a plurality of instructions, wherein the instructions are configured to cause the hardware processor to perform operations comprising:

accessing [[an]]a first OVER file stored on [[an]]a first OVER file client device, the first OVER file comprising:

a first virtual representation of the original credential that has been verified by an issuing agency to be [[an]]a first official representation of the original credential of the user for proving the user's identity or qualifications, based on information associated with the original credential of the user, wherein the first OVER file is itself a first new credential of the user;

the first OVER file generated by an OVER engine configured to:

store the information associated with the original credential of the user; and

transmit the first generated OVER file to the first OVER file client device;

transmitting to the OVER engine a first verifying request to verify that the first OVER file accessed from the first OVER file client device authenticates the user;

receiving [[an]]a first authentication message comprising [[an]]a first indication of whether a first scan associated with the first OVER file on the first OVER file client device of the user corresponds to the information associated with the original credential of the user that is stored in the OVER engine; [[and]]

outputting a first status indicator expressing whether the first OVER file authenticates the user;

accessing a second OVER file stored on a second OVER file client device of the user, the second OVER file comprising a second virtual representation of the original credential that has been verified by the issuing agency to be a second official representation of the

original credential that is invalid for use in the first OVER file client device for authenticating the user, wherein the second OVER file is itself a second new credential over the first OVER file and the original credential;

transmitting to the OVER engine a second verifying request to verify that the second OVER file scanned at the second client device authenticates the user;

receiving a second authentication message comprising a second indication of whether the second scan associated with the second OVER file on the device of the user corresponds to the information associated with the original credential of the user that is stored in the OVER engine; and

outputting a second status indicator expressing whether the second OVER file authenticates the user.

10. (Canceled)

11. (Currently Amended) The device of claim 9, wherein the first OVER file further comprises a device identifier for the original credential configured to limit the first OVER file, for use in authenticating the user using the information of the original credential, to the first OVER file client device.

12. (Currently Amended) The device of claim 9, wherein the first OVER file further comprises user-specific information.

13. (Original) The device of claim 12, wherein the user specific-information comprises at least one of:

biometric information, location information, a password, or a device identifier.

14. (Currently Amended) The device of claim 9, wherein the first OVER file comprises a portion of the original credential stored by the OVER engine.

15. (Currently Amended) The device of claim 9, wherein the first authentication message comprises an indication that the first OVER file is expired.

16. (Currently Amended) The device of claim 9, wherein the operations further ~~comprising~~ comprise accessing~~, by the verifying device~~, from the first OVER file client device, additional credential information associated with the first OVER file indicating whether a secondary condition for authorizing the user has been satisfied.

17. (Currently Amended) A non-transitory computer-readable medium comprising instructions that, when executed by a processor, cause the processor to perform operations comprising:

accessing [[an]]a first OVER file stored on [[an]]a first OVER file client device, the first OVER file comprising:

a first virtual representation of an original credential that has been verified by an issuing agency to be [[an]]a first official representation of the original credential of a user for proving the user's identity or qualifications, based on information associated with the original credential of the user, wherein the first OVER file is itself a first new credential of the user;

the first OVER file generated by an OVER engine configured to:

store the information associated with the original credential of the user; and

transmit the first generated OVER file to the first OVER file client device;

transmitting to the OVER engine a first verifying request to verify that the first OVER file accessed from the first OVER file client device authenticates the user;

receiving [[an]]a first authentication message comprising [[an]]a first indication of whether a first scan associated with the first OVER file on the first OVER file client device of the user corresponds to the information associated with the original credential of the user that is stored in the OVER engine; [[and]]

outputting a first status indicator expressing whether the first OVER file authenticates the user;

accessing a second OVER file stored on a second OVER file client device of the user, the second OVER file comprising a second virtual representation of the original credential that has been verified by the issuing agency to be a second official representation of the

original credential that is invalid for use in the first OVER file client device for authenticating the user, wherein the second OVER file is itself a second new credential over the first OVER file and the original credential;

transmitting to the OVER engine a second verifying request to verify that the second OVER file scanned at the second client device authenticates the user;

receiving a second authentication message comprising a second indication of whether the second scan associated with the second OVER file on the device of the user corresponds to the information associated with the original credential of the user that is stored in the OVER engine; and

outputting a second status indicator expressing whether the second OVER file authenticates the user.

18. (Canceled)

19. (Currently Amended) The computer readable medium of claim 17, wherein the OVER file further comprises a device identifier for the original credential configured to limit the first OVER file, for use in authenticating the user using the information of the original credential, to the OVER file client device.

20. (Currently Amended) The computer readable medium of claim 17, wherein the first OVER file further comprises user-specific information comprising at least one of:

biometric information, location information, a password, or a device identifier.

EXAMINER'S REASONS FOR ALLOWANCE

3. The following is an examiner's statement of reasons for allowances:

The closest prior art of record, Kang teaches an electronic document repository system that includes an authentication module, a registration module, a reading module,

an issuing module and a certification module where the electronic document repository system connected to a user terminal over a network for guaranteeing authentication and issuing authentication certificate. Bhatnagar teaches generating and transmitting a barcode to the client and capturing the barcode with a portable communication device to decode and decrypt the third party server credentials to obtain user information. Bhatnagar uses one time passwords and out of band communications channels.

Combination of Kang and Bhatnagar do not teach “the OVER file comprising a virtual representation of an original credential of a user that has been verified by an issuing agency to be an official representation of the original credential of the user for proving the user’s identity for qualifications, based on information associated with the original credential of the user, wherein the OVER file itself a new credential of the user” and “receiving an authentication message comprising an indication of whether a scan associated with the OVER file on the client device corresponds to the information associated with the original credential of the user" as recited in claim 1. The combination of Kang and Bhatnagar also don’t teach “accessing a second OVER file stored on a second OVER file client device of the user, the second OVER file comprising a second virtual representation of the original credential that has been verified by the issuing agency to be a second official representation of the original credential that is invalid for use in the first OVER file client device for authenticating the user, wherein the second OVER file is itself a second new credential over the first OVER file and the original credential”, as recites in claim 1.

Similar reasoning is applied to independent claims 9 and 17.

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

Conclusion

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to WASIKA NIPA whose telephone number is (571)272-8923. The examiner can normally be reached on M-F (7:30 - 5:00).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, JEFFRY PWU can be reached on 571-272-6798. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/WASIKA NIPA/

Examiner, Art Unit 2433

Examiner-Initiated Interview Summary	Application No.	Applicant(s)	
	14/982,981	SARKISSIAN, SHAUNT M.	
	Examiner	Art Unit	
	WASIKA NIPA	2433	

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

(1) *WASIKA NIPA*.

(2) _____.

(3) *Jordan Kwan*.

(4) _____.

Date of Interview: *20 November 2017*.

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 and 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...)

Examiner called applicant's representive to discuss the current status of claim. In attempt to accelerate the prosecution process, examiner proposed to further amend the independent claim 1 to incorporate the limitation of dependent claim 2 to positively recite the limitations in detail and to clarify the claim invention over prior art of reference. Examiner mentioned that the amendment is also required to overcome the double patenting rejection. Applicant pointed out that the patented case deals with steps that are performed by officially verifiable electronic representation generation and verification engine, however the current application deals with the steps that are performed by over file verifying device. Examiner mentioned that similar amendment is required for other independent claims. Examiner also asked to file terminal disclaimer to overcome the double patenting rejection.

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

/WASIKA NIPA/ Examiner, Art Unit 2433	

EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L3	772	(stor$3 verif$3) WITH (credential identifier id) SAME (mobile smart iphone cell$5 laptop tablet) SAME scan$3 SAME (authenticat$3 authori$6)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/12/04 14:33
S1	23	(("SARKISSIAN") near3 ("Shaunt")).INV.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/11/30 18:32
S2	2	S1 AND over.clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/11/30 18:32
S3	3	S1 AND ((authenticat$3 verif$6) AND credential).clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/11/30 18:33
S4	6	cortex.inv.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/11/30 18:33
S5	117956	(verifying verification authenticat$3) WITH (credential code certificate) SAME (request$3 receiv$3 stor$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/11/30 18:37
S6	52551	(id identity identifier credential) WITH authenticat$3 SAME (generat$3 issu$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/11/30 18:38
S7	2162	(unencod$3 unscrambl$3 decipher$3	US-PGPUB;	OR	OFF	2017/11/30

		read$3) NEAR3 (code credential identifier id) WITH (authenticat$3 authori$6 verif$3 verification validity).clm.	USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			18:39
S8	109064	(H04L63/083 or H04L63/0861 or G06Q20/3821 or G06Q20/3274 or H04L63/08 or G06Q30/0251 or H04L2463/102).cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/11/30 18:39
S9	190	S7 AND S8	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/11/30 18:39
S10	5452	(generat$3 creat$3 produc$3 mak$3 build$3 construct$3) WITH (document file code identifier id) WITH (user client subscriber customer requester requesting NEAR2 (party entity)) WITH (service resource content information file document) WITH (identity identifier credential id).clm.	USPAT	OR	OFF	2017/11/30 19:11
S11	529	S10 AND S8	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/11/30 19:11
S12	12241	((generat$3 creat$3 produc$3 mak$3 build$3 construct$3) WITH (document file code identifier id) WITH (user client subscriber customer requester requesting NEAR2 (party entity)) WITH (service resource content information file document) WITH (identity identifier credential id)).clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/11/30 19:12
S13	2	"9251531".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/11/30 19:29
S14	9	officially WITH verifiable WITH electronic SAME credential	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/11/30 19:30
S15	313	(id identity identifier credential) WITH (generat$3 issu$3) WITH agency SAME request$3	US-PGPUB; USPAT; USOCR; FPRS; EPO;	OR	OFF	2017/11/30 19:39

			JPO; DERWENT; IBM_TDB			
S16	4812	authenticat$3 WITH (log$in access$3) SAME (document certificate file) WITH (storage repository)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/11/30 19:42
S17	3018	S16 AND @ad<"20121221"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/11/30 19:42
S18	109064	(H04L63/083 or H04L63/0861 or G06Q20/3821 or G06Q20/3274 or H04L63/08 or G06Q30/0251 or H04L2463/102).cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/11/30 19:42
S19	459	S17 AND S18	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/11/30 19:42
S20	11	"2012173311"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/11/30 19:44
S21	10032	authenticat$3 WITH (log$in) AND (document certificate file) WITH (storage repository)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/11/30 19:51
S22	3018	S16 AND @ad<"20121221"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/11/30 19:54
S23	703057	("705" "709" "713" "726" "380").clas.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/11/30 19:55
S24	1645	S17 AND S23	US-PGPUB; USPAT;	OR	OFF	2017/11/30 19:55

			USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			
S25	772	(stor$3 verif$3) WITH (credential identifier id) SAME (mobile smart iphone cell$5 laptop tablet) SAME scan$3 SAME (authenticat$3 authori$6)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/11/30 20:01
S26	47607	electronic ADJ document	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/11/30 20:01
S27	20	S25 AND S26	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/11/30 20:01
S28	32691	(stor$3 verif$3) AND (credential identifier id) AND (mobile smart iphone cell$5 laptop tablet) AND scan$3 AND (authenticat$3 authori$6).clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/11/30 20:06
S29	20851	S28 AND @ad<"20130312"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/11/30 20:06
S30	1422	(permit$4 permission grant$3) WITH access AND (valid invalid) NEAR4 credential	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/11/30 20:29
S31	37922	(generat$3 creat$3 produc$3 mak$3 build$3 construct$3) WITH (document file code identifier id) WITH (user client subscriber customer requester requesting NEAR2 (party entity)) WITH (service resource content information file document) WITH (identity identifier credential id) SAME (server service NEAR3 provider supplier database data NEAR2 warehouse)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/11/30 20:29
S32	19017	(unencod$3 unscrambl$3 decipher$3 read$3) NEAR3 (code credential identifier id) WITH (authenticat$3 authori$6 verif$3 verification validity)	US-PGPUB; USPAT; USOCR; FPRS; EPO;	OR	OFF	2017/11/30 20:29

			JPO; DERWENT; IBM_TDB			
S33	1106	S31 AND S32	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/11/30 20:29
S35	5	"2009307756"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/11/30 20:38
S36	82984	(generat$3 creat$3 produc$3 mak$3 build$3 construct$3) WITH (document file code identifier id) WITH (user client subscriber customer requester requesting NEAR2 (party entity)) WITH (service resource content information file document) WITH (identity identifier credential id)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/11/30 20:46
S41	7	"2012151206".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/12/04 12:14
S42	2156	(id identity identifier credential) WITH (generat$3 issu$3) WITH (agency organization third NEAR3 party) SAME request$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/12/04 12:16

EAST Search History (Interference)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	202	(authenticat$3 WITH (log$in) AND (document certificate file) WITH (storage repository)).clm.	US-PGPUB; USPAT	OR	OFF	2017/12/04 14:32
L2	141	L1 AND @ad<"20121221"	US-PGPUB; USPAT	OR	OFF	2017/12/04 14:33
S37	5786	((authenticat$3 verif$6) AND credential).clm.	US-PGPUB; USPAT	OR	OFF	2017/11/30 20:47
S38	904	((stor$3 verif$3) AND (credential identifier id) AND (mobile smart iphone cell$5 laptop tablet) AND scan$3 AND (authenticat$3 authori$6)).clm.	US-PGPUB; USPAT	OR	OFF	2017/11/30 20:47
S39	42040	(H04L63/083 or H04L63/0861 or G06Q20/3821 or G06Q20/3274 or H04L63/08 or G06Q30/0251 or	US-PGPUB; USPAT	OR	OFF	2017/11/30 20:48

		H04L2463/102).cpc.				
S40	192	S38 AND S39	US-PGPUB; USPAT	OR	OFF	2017/11/30 20:48
S43	500357	("705" "709" "713" "726" "380").clas.	US-PGPUB; USPAT	OR	OFF	2017/12/04 12:09
S44	5786	((authenticat$3 verif$6) AND credential).clm.	US-PGPUB; USPAT	OR	OFF	2017/12/04 12:10
S45	3509	S43 AND S44	US-PGPUB; USPAT	OR	OFF	2017/12/04 12:10
S46	283	((permit$4 permission grant$3) AND access AND (valid invalid) AND credential).clm.	US-PGPUB; USPAT	OR	OFF	2017/12/04 12:12
S47	3	(officially WITH verifiable WITH electronic AND credential).clm.	US-PGPUB; USPAT	OR	OFF	2017/12/04 12:13

12/4/2017 2:34:12 PM
C:\Users\wnipa\Documents\EAST\Workspaces\14982981.wsp

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STIC

Actions: Query | Results | 0 Selected | Sort: Relevance | Cut-off: None | De-dup: None

1 - 50 | 14,083,932 results | Top 1500 results

1. **File format and platform for storage and verification of credentials**

   In various embodiments, a computer-implemented method for generating and verifying officially verifiable electronic representations may be disclosed. The method may comprise receiving, by a credential database, a request for a credential action. The credential database may be configured to store one...

   CURRENT ASSIGNEES: CORTEX MCP INC
   EP2936370A1 | EUROPEAN APPLICATIONS | 28-OCT-2015

2. **File format and platform for storage and verification of credentials**

   In various embodiments, a computer-implemented method for generating and verifying officially verifiable electronic representations may be disclosed. The method may comprise receiving, by a credential database, a request for a credential action. The credential database may be configured to store one...

   CURRENT ASSIGNEES: CORTEX MCP INC
   WO2014100628A1 | WIPO APPLICATIONS | 26-JUN-2014

3. **File format and platform for storage and verification of credentials**

   In various embodiments, a computer-implemented method for generating and verifying officially verifiable electronic representations may be disclosed. The method may comprise receiving, by a credential database, a request for a credential action. The credential database may be configured to store one...

   CURRENT ASSIGNEES: CORTEX MCP INC
   US9251531 | US PATENTS | 02-FEB-2016

4. **File format and platform for storage and verification of credentials**

   In various embodiments, a computer-implemented method for generating and verifying officially verifiable electronic representations may be disclosed. The method may comprise receiving, by a credential database, a request for a credential action. The credential database may be configured to store one...

   CURRENT ASSIGNEES: CORTEX MCP INC
   US20140181927 | US APPLICATIONS | 26-JUN-2014

5. **File format and platform for storage and verification of credentials**

   In various embodiments, a computer-implemented method for generating and verifying officially verifiable electronic representations may be disclosed. The method may comprise receiving, by a credential database, a request for a credential action. The credential database may be configured to store one...

   CURRENT ASSIGNEES: CORTEX MCP INC
   CA2934873A1 | CANADIAN APPLICATIONS | 26-JUN-2014

6. **System and method for creating and administering electronic credentials**

   The system may be configured to create and manage electronic credential information. The system may generate, by the computer based system and via a token engine, a first token. The system may associate, by the computer based system, the first token and the first electronic identification...

   CURRENT ASSIGNEES: AMERICAN EXPRESS TRAVEL RELATED SRVC CO INC
   US20170200151 | US APPLICATIONS | 13-JUL-2017

7. **System and method for electronic credentials**

   The present disclosure describes systems and methods directed towards a highly secure and intelligent, end to end provisioning, authentication, and transaction system which creates and/or consolidates user data for a unified profile for the user (e.g., a person, place, organization, object, etc.) to...

   CURRENT ASSIGNEES: TANGO MOBILE LLC
   US20150207789 | US APPLICATIONS | 23-JUL-2015

8. **System and Method for Mobile or Web-Based Payment/Credential Process**

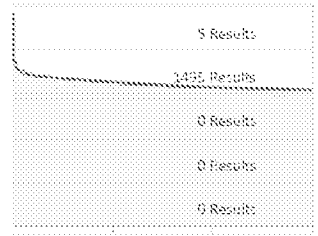
   The present disclosure describes systems and methods directed towards a highly secure and intelligent, end to end provisioning, authentication, and transaction system which creates and/or consolidates user data for a unified profile for the user (e.g., a person, place, organization, object, etc.) to...

   CURRENT ASSIGNEES: TANGO MOBILE LLC
   US20150235215 | US APPLICATIONS | 20-AUG-2015

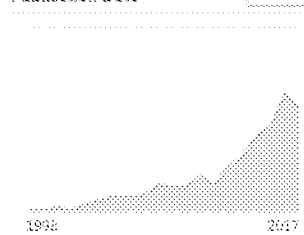
9. **Systems and methods for generating and validating certified electronic credentials**

   Systems and methods for generating and validating certified electronic credentials are disclosed. A certified electronic credential may comprise a computer-readable file representative of a credential bestowed upon a recipient, in which the file is protected with one or more document integrity and...

Relevance VIEW



Publication Date VIEW



Cur Assignee by Relevance VIEW

- CORTEX MCP INC (6)
- AMERICAN EXPRESS TRAV... (7)
- TANGO MOBILE LLC (4)
- PARADIGM INC (2)
- KUMAR HIMALESH CHERU... (3)
- KHAN SAL (10)
- LEGATUS SOLUTIONS CORP (1)

View More Visualizations

CURRENT ASSIGNEES: PARADIGM INC
US20160294845 | US APPLICATIONS | 06-OCT-2016 Pats & Apps US20160149896 0 Filters

STIC

10. Systems and methods for generating and validating certified electronic credentials

Systems and methods for generating and validating certified electronic credentials are disclosed. A certified electronic credential may comprise a computer-readable file representative of a credential bestowed upon a recipient, in which the file is protected with one or more document integrity and...

CURRENT ASSIGNEES: PARADIGM INC
WO2016160052A1 | WIPO APPLICATIONS | 06-OCT-2016

11. System And Method For Secure Transactions

The present disclosure describes systems and methods directed towards a highly secure and intelligent, end to end provisioning, authentication, and transaction system which creates and/or consolidates user data for a unified profile for the user (e.g., a person, place, organization, object, etc.) to...

CURRENT ASSIGNEES: TANGO MOBILE LLC
US20150237026 | US APPLICATIONS | 20-AUG-2015

12. System and method for secure transactions

The present disclosure describes systems and methods directed towards a highly secure and intelligent, end to end provisioning, authentication, and transaction system which creates and/or consolidates user data for a unified profile for the user (e.g., a person, place, organization, object, etc.) to...

CURRENT ASSIGNEES: TANGO MOBILE LLC
US9386093 | US PATENTS | 05-JUL-2016

13. System and method for electronic credentials

The present disclosure describes systems and methods directed towards a highly secure and intelligent, end to end provisioning, authentication, and transaction system which creates and/or consolidates user data for a unified profile for the user (e.g., a person, place, organization, object, etc.) to...

CURRENT ASSIGNEES: KUMAR HIMALESH CHERUKUVADA
WO2014028514A2 | WIPO APPLICATIONS | 20-FEB-2014

14. System and method for mobile or web-based payment/Credential process

The present disclosure describes systems and methods directed towards a highly secure and intelligent, end to end provisioning, authentication, and transaction system which creates and/or consolidates user data for a unified profile for the user (e.g., a person, place, organization, object, etc.) to...

CURRENT ASSIGNEES: KUMAR HIMALESH CHERUKUVADA
WO2014028516A1 | WIPO APPLICATIONS | 20-FEB-2014

15. Portable verifiable credentials and methods thereof

The migration of identity documents, such as driving licenses, from physical documents to electronic documents creates new problems for those seeking to verify the identity of an individual based upon the electronic document they provide. However, the inventors have established a means of binding...

CURRENT ASSIGNEES: KHAN SAL
CA2920718A1 | CANADIAN APPLICATIONS | 15-AUG-2017

16. Portable verifiable credentials and methods thereof

Security features of identity (ID) documents include visual security features, machine-readable security features, and embedded passive or active electronic circuits. Such security measures are bypassed, eliminated, or reduced in efficacy when the ID document is also provided in an electronic...

CURRENT ASSIGNEES: KHAN SAL
CA2931469A1 | CANADIAN APPLICATIONS | 27-SEP-2017

17. Portable verifiable credentials and methods thereof

The migration of identity documents, such as driving licenses, from physical documents to electronic documents creates new problems for those seeking to verify the identity of an individual based upon the electronic document they provide. However, the inventors have established a means of binding...

CURRENT ASSIGNEES: KHAN SAL
US20170324750 | US APPLICATIONS | 09-NOV-2017

18. System and method for secure transactions

The present disclosure describes systems and methods directed towards a highly secure and intelligent, end to end provisioning, authentication, and transaction system which creates and/or consolidates user data for a unified profile for the user (e.g., a person, place, organization, object, etc.) to...

CURRENT ASSIGNEES: KUMAR HIMALESH CHERUKUVADA
WO2014028510A2 | WIPO APPLICATIONS | 20-FEB-2014

STIC

19. Method for storing, delivering, and displaying documentation and credentials related to intrastate and interstate commerce Patents & Apps US20160149896 0 Filters

A method and apparatus for one office, such as a State's fuel tax licensing bureau, to deliver an electronic/digital certificate to a licensee's "folder" and allow an authorized user to share a link to that object. This solves the three key problems: object delivery and provenance, allowing the...

CURRENT ASSIGNEES: LEGATUS SOLUTIONS CORP
US20170200170 | US APPLICATIONS | 13-JUL-2017

20. Visual credential verification

A solution for visual credential verification. The solution includes an apparatus, system, and method embodiment. The apparatus for visual credential verification includes an input module, a comparison module, and a response module. The input module receives from a security official an image of an...

CURRENT ASSIGNEES: INTL BUSINESS MACHINES CORP
US8406480 | US PATENTS | 26-MAR-2013

21. Electronic credentials verification and management system

A credentials record system that captures personnel background data, such as license information, education and training, work experience, performance data and electronic signature at the time of entry using graphical user interfaces through a network, wherein it permits instant, sophisticated...

CURRENT ASSIGNEES: FORTRESS CREDIT OPPORTUNITIES I LP
US8620676 | US PATENTS | 31-DEC-2013

22. Apparatus, system, and method for visual credential verification

A solution for visual credential verification. The solution includes an apparatus, system, and method embodiment. The apparatus for visual credential verification includes an input module, a comparison module, and a response module. The input module receives from a security official an image of an...

CURRENT ASSIGNEES: INTL BUSINESS MACHINES CORP
US20100209006 | US APPLICATIONS | 19-AUG-2010

23. Acquiring client device data

In one implementation, a processing system receives a request from a client device to access a user account of the user. In response to receiving the request, the processing system transmits credential data, which corresponds to a credential and which indicates client device data to transmit in...

CURRENT ASSIGNEES: MICROSTRATEGY INC
US9762564 | US PATENTS | 12-SEP-2017

24. Secure system and method for collecting, authenticating, and using personal data

A system for collecting, storing, authenticating, and managing personal information, such as identity data, skill data, qualification data, certification data, for individuals and/or organizations. The system surely collects identity, skill, qualification, and certification data and enables the...

CURRENT ASSIGNEES: BARNES ROBERT B [+1]
US20130340058 | US APPLICATIONS | 19-DEC-2013

25. Methods and apparatus for transacting with multiple domains based on a credential

In one embodiment, a method includes receiving from a credential a credential-owner authentication information associated with an identity of an individual. A issuer validation information associated with an issuer of the credential is also received. The method also includes providing a plurality of...

CURRENT ASSIGNEES: STOLLMAN JEFF
US20140189813 | US APPLICATIONS | 03-JUL-2014

26. Methods and apparatus for transacting with multiple domains based on a credential

In one embodiment, a method includes receiving from a credential a credential-owner authentication information associated with an identity of an individual. A issuer validation information associated with an issuer of the credential is also received. The method also includes providing a plurality of...

CURRENT ASSIGNEES: STOLLMAN JEFF
US9590968 | US PATENTS | 07-MAR-2017

27. Virtual credentials and licenses

Providing virtualized credentials of a holder includes authorizing a subset of credential data to be sent to a device of a relying party that is different from the holder, where the subset of credential data depends on a role of the relying party, selection by the holder, and/or contextual data of...

CURRENT ASSIGNEES: ASSA ABLOY AB
US20160380774 | US APPLICATIONS | 29-DEC-2016

28. Transactions using temporary credential data

STIC

A method is disclosed. The method includes receiving a credential request message requesting a temporary credential associated with a payment account, and then determining, by a server computer, using a routing table and data associated with the payment card, a third-party computer associated with...

CURRENT ASSIGNEES: VISA INTL SRVC ASSOC
US20150161597 | US APPLICATIONS | 11-JUN-2015

29. **Method and system for verification of personal information**

In one form, there is disclosed a system (100) for storing, validating and disseminating credential information about an entity. The system (100) generates data representing at least part of the credential information and a data representation of at least part of a document supporting that...

CURRENT ASSIGNEES: STAFFORD GRANT
US20090271321 | US APPLICATIONS | 29-OCT-2009

30. **Method and apparatus to perform online credential reporting**

Embodiments of the invention provide a process for displaying a graphical indicator on an Internet enabled device which conveys relationships between an entity associated with a website and third party entities with respect to the website entity. One example method may include obtaining the...

CURRENT ASSIGNEES: AVULI INC
US20160378880 | US APPLICATIONS | 29-DEC-2016

31. **Secure system and method for collecting, authenticating, and using personal data**

A system for collecting, storing, authenticating, and managing personal information, such as identity data, skill data, qualification data, certification data, for individuals and/or organiza-tions. The system surely collects identity, skill, qualification, and certification data and enables the...

CURRENT ASSIGNEES: INTL ASSOC FLIGHT TRAINING PROFESSIONALS INC
WO2013188301A2 | WIPO APPLICATIONS | 19-DEC-2013

32. **Methods and apparatus for transacting with multiple domains based on a credential**

In one embodiment, a method includes receiving from a credential a credential-owner authentication information associated with an identity of an individual. A issuer validation information associated with an issuer of the credential is also received. The method also includes providing a plurality of...

CURRENT ASSIGNEES: STOLLMAN JEFF
US20100116880 | US APPLICATIONS | 13-MAY-2010

33. **System and method for integrating multi-authentication operation**

The present invention discloses a system and method for integrating multi-authentication operation, which works through a communication network to carry out communication with at least two remote authentication systems. The two or more remote authentication systems are able to issue a certificate in...

CURRENT ASSIGNEES: SYSTEX CORP
TW200522653A | TAIWANESE APPLICATIONS | 01-JUL-2005

34. **Virtual credentials and licenses**

Providing virtualized credentials of a holder includes authorizing a subset of credential data to be sent to a device of a relying party that is different from the holder, where the subset of credential data depends on a role of the relying party, selection by the holder, and/or contextual data of...

CURRENT ASSIGNEES: ASSA ABLOY AB PUBL
EP3142064A1 | EUROPEAN APPLICATIONS | 15-MAR-2017

35. **Methods and apparatus for transacting with multiple domains based on a credential**

In one embodiment, a method includes receiving from a credential a credential-owner authentication information associated with an identity of an individual. A issuer validation information associated with an issuer of the credential is also received. The method also includes providing a plurality of...

CURRENT ASSIGNEES: STOLLMAN JEFF
US8549589 | US PATENTS | 01-OCT-2013

36. **Credential management**

In general, one aspect of the subject matter described in this specification can be embodied in methods that include receiving a registration request from a mobile device to create a credential management account for a user associated with the mobile device; generating a public key and a paired...

CURRENT ASSIGNEES: MICROSTRATEGY INC
US9730065 | US PATENTS | 08-AUG-2017

37. **Method and apparatus to perform online credential reporting**

Embodiments of the invention provide a process for displaying a graphical indicator on an Internet enabled device which conveys relationships between an entity associated with a website and third party entities with respect to the website entity. One example method may include obtaining the...

CURRENT ASSIGNEES: AVULI INC
US9449195 | US PATENTS | 20-SEP-2016 Discover Pats & Apps US20160149896 0 Filters

STIC

38. Method and system for verification of personal information

In one form, there is disclosed a system (100) for storing, validating and disseminating credential information about an entity. The system (100) generates data representing at least part of the credential information and a data representation of at least part of a document supporting that...

CURRENT ASSIGNEES: STAFFORD GRANT
WO2007137368A1 | WIPO APPLICATIONS | 06-DEC-2007

39. Method and apparatus to perform online credential reporting

Embodiments of the invention provide a process for displaying a graphical indicator on an Internet enabled device which conveys relationships between an entity associated with a website and third party entities with respect to the website entity. One example method may include obtaining the...

CURRENT ASSIGNEES: AVULI INC
US20100192068 | US APPLICATIONS | 29-JUL-2010

40. Credential technology

In one implementation, a server system receives, from a device of a user, a request to validate a credential of a second user. The server system identifies the credential of the second user to validate based on the request received from the device of the first user. The server system confirms that...

CURRENT ASSIGNEES: MICROSTRATEGY INC
US9516018 | US PATENTS | 06-DEC-2016

41. Verification System

In described embodiments, a verification system allows for registration of credential providing entities and storage of credential data from, and verified by, the credential providing entities. The verification system further allows for users, through a credential and verification device associated ..

CURRENT ASSIGNEES: VERIF Y INC
US20160304183 | US APPLICATIONS | 09-OCT-2016

42. Peer forward authorization of digital requests

Embodiments may enable a user to forward authorize a specific amount to a member of their payment pool by distributing a subtoken generated from a token issued to the user. The member of the payment pool may receive the subtoken through a delivery channel (e.g., by e-mail) and may utilize the...

CURRENT ASSIGNEES: VISA INTL SRVC ASSOC
US20160239842 | US APPLICATIONS | 18-AUG-2016

43. Systems, methods and apparatus for secure printing of negotiable instruments

A secure system for requesting, approving, and printing negotiable instruments operates in a web-enabled browser-based environment. Users at a remote location connect to a central server using a conventional browser on a client computer via the Internet or another network. The user provides a...

CURRENT ASSIGNEES: MONEYGRAM PAYMENT SYS INC
US20030014368 | US APPLICATIONS | 16-JAN-2003

44. Credential Verification using Credential Repository

A credential repository securely stores user credentials. The credential repository may be accessed by multiple entities. Instead of having a user carry his credentials with him (e.g., on a credit card or driver's license, which can be lost or stolen), the user's credentials are retrieved from the...

CURRENT ASSIGNEES: INTL BUSINESS MACHINES CORP
US20090119756 | US APPLICATIONS | 07-MAY-2009

45. Authentication systems and methods for credential activation and provisioning

Authentication systems and methods are provided for credential activation and/or provisioning. A transaction is made by a transaction processor to a user's credential account that contains a value and an activation code. The user retrieves the activation code from his or her account and provides it...

CURRENT ASSIGNEES: VISA INTL SRVC ASSOC
US20160292686 | US APPLICATIONS | 06-OCT-2016

46. Layered security for age verification and transaction authorization

A user may be willing to purchase items or participate in a pay-for service offered by a service provider. A service provider may wish to verify characteristics of the user prior to allowing transactions to take place, and may want to secure the transactions once the transactions are allowed. A...

CURRENT ASSIGNEES: CARDLOGIX CORP
US20130138579 | US APPLICATIONS | 30-MAY-2013

Credential Verification using Credential Repository

STIC

47. A credential repository securely stores user credentials. The credential repository may be accessed by multiple entities. Instead of having a user carry his credentials with him (e.g., a credit card or driver's license, which can be lost or stolen), the user's credentials are retrieved from the...

CURRENT ASSIGNEES: INTL BUSINESS MACHINES CORP
US20090113757 | US APPLICATIONS | 07-MAY-2009

48. **Peer forward authorization of digital requests**

Embodiments may enable a user to forward authorize a specific amount to a member of their payment pool by distributing a subtoken generated from a token issued to the user. The member of the payment pool may receive the subtoken through a delivery channel (e.g., by e-mail) and may utilize the...

CURRENT ASSIGNEES: VISA INTL SRVC ASSOC
WO2016130764A1 | WIPO APPLICATIONS | 18-AUG-2016

49. **Layered security for age verification and transaction authorization**

A user may be willing to purchase item or participate in a pay-for service offered by a service provider. A service provider may wish to verify characteristics of the user prior to allowing transactions to take place, and may want to secure the transactions once the transactions are allowed. A...

CURRENT ASSIGNEES: ROSS BRUCE
WO2013082329A1 | WIPO APPLICATIONS | 06-JUN-2013

50. **Verification System**

In described embodiments, a verification system allows for registration of credential providing entities and storage of credential data from, and verified by, the credential providing entities. The verification system further allows for users, through a credential and verification device associated..

CURRENT ASSIGNEES: VERIFY INC
US20150278824 | US APPLICATIONS | 01-OCT-2015

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Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	14982981	SARKISSIAN, SHAUNT M.
	Examiner	**Art Unit**
	WASIKA NIPA	2433

CPC- SEARCHED

Symbol	Date	Examiner
H04L63/08	12/4/2017	WN
G06Q20/3274	12/4/2017	WN
G06Q30/0251	12/4/2017	WN

CPC COMBINATION SETS - SEARCHED

Symbol	Date	Examiner

US CLASSIFICATION SEARCHED

Class	Subclass	Date	Examiner
	None alone		

* 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
Google Scholar	12/4/2017	WN
Google Patent Search	12/4/2017	WN
East classification 705, 713, 726 and 380 with text	12/4/2017	WN
Inventor Search	12/4/2017	WN
Assignee Search	12/4/2017	WN
CPC classification search with limited text	12/4/2017	WN
IP.com search	12/4/2017	WN

INTERFERENCE SEARCH

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

/WASIKA NIPA/ Examiner.Art Unit 2433	

INTERFERENCE SEARCH			
US Class/ CPC Symbol	**US Subclass / CPC Group**	**Date**	**Examiner**
H04L63	083	12/4/2017	WN
G06Q20	3274	12/4/2017	WN
G06Q30	3821	12/4/2017	WN
H04L63	08	12/4/2017	WN

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Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	14982981	SARKISSIAN, SHAUNT M.
	Examiner	**Art Unit**
	WASIKA NIPA	2433

CPC						
Symbol					**Type**	**Version**
H04L		63	/	083	F	2013-01-01
G06Q		30	/	0251	I	2013-01-01
H04L		63	/	08	I	2013-01-01
H04L		2463	/	102	A	2013-01-01
G06Q		20	/	3274	I	2013-01-01
G06Q		20	/	3821	I	2013-01-01
H04L		63	/	0861	I	2013-01-01
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Symbol					**Type**	**Set**	**Ranking**	**Version**
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(Assistant Examiner)	(Date)	**Total Claims Allowed:** 17	
/WASIKA NIPA/ Examiner.Art Unit 2433	11/30/2017	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	1

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
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	Examiner	**Art Unit**
	WASIKA NIPA	2433

US ORIGINAL CLASSIFICATION		INTERNATIONAL CLASSIFICATION	
CLASS	SUBCLASS	CLAIMED	NON-CLAIMED
726	6	H 0 4 L 9 / 00 (2006.01.01)	

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

(Assistant Examiner)	(Date)	Total Claims Allowed: 17	
/WASIKA NIPA/ Examiner.Art Unit 2433	11/30/2017	O.G. Print Claim(s)	O.G. Print Figure
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Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	14982981	SARKISSIAN, SHAUNT M.
	Examiner	**Art Unit**
	WASIKA NIPA	2433

☐ Claims renumbered in the same order as presented by applicant ☐ CPA ☒ T.D. ☐ R.1.47

Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original
1	1	15	17												
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13	15														
14	16														

(Assistant Examiner)	(Date)	**Total Claims Allowed:** 17	
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system and method for creating electronic credential

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System and method for electronic credentials
www.google.com/patents/US20150207789
App. - Filed Aug 13, 2013 - Published Jul 23, 2015 - Himalesh Cherukuvada Kumar - Tango Mobile, LLC
2015 entitled "**System and Method** for Mobile or Web-Based Payment/**Credential** Process" which is a U.S. national stage application of PCT application ... 23 is a functional block diagram of an ID/**credential system** illustrating a user manually storing in a secure storage device an ID/**credential created** by a ...
Overview · Related · Discuss

Systems and methods for generating and validating certified ...
www.google.com/patents/US20160294845
App. - Filed Sep 16, 2015 - Published Oct 6, 2016 - Christopher S. Jackson - Paradigm, Inc.
Systems and methods for generating and validating certified **electronic credentials** are disclosed. A certified electronic ... and academic credentials. The overall acceptance of the paper credential has **created** a market for fraudulent paper credentials, with an estimated $2 Billion worldwide market value.
Overview · Related · Discuss

Systems and methods for secure online credential authentication
www.google.com/patents/WO2017066688A1?cl=en
App. - Filed Oct 14, 2016 - Published Apr 20, 2017 - Blake HALL - Id.Me, Inc.
Systems, methods, and non-transitory computer-readable medium are disclosed includes for secure **online credential** authentication. One **method** ...
Overview · Related · Discuss

Systems and methods for secure online credential authentication
www.google.com/patents/US20170111358
App. - Filed Oct 14, 2016 - Published Apr 20, 2017 - Blake Hall - Id.Me, Inc.
Systems, methods, and non-transitory computer-readable medium are disclosed includes for secure **online credential** authentication. One **method** includes receiving, over an electronic network, identification information from an identity provider; accessing, from a database, previously stored hashed ...
Overview · Related · Discuss

Electronic credentials verification and management system
www.google.com/patents/US8131558
Grant - Filed May 4, 2009 - Issued Mar 6, 2012 - Marilyn Grunzweig Gelier - Medversant Technologies, Inc.
A **credentials** record **system** that **creates** and maintains all personnel data **electronically** is disclosed. The **system** captures personnel background data, such as ... A **method** for **electronically** verifying **credentials** information pertaining to applicants over a communications network, the **method** comprising:
Overview · Related · Discuss

Systems and methods for generating and validating certified ...
www.google.com/patents/WO2016160052A1?cl=en
App. - Filed Sep 14, 2015 - Published Oct 6, 2016 - Christopher S. JACKSON - Paradigm, Inc.
Systems and methods for generating and validating certified **electronic credentials** are disclosed. A certified **electronic credential** may comprise a computer-readable file representative of a credential bestowed upon a recipient, in which the file is protected with one or more document integrity and ... **created** ...
Overview · Related · Discuss

Method and system for providing characterized on-line identities and ...
www.google.com/patents/WO2003105398A1?cl=en
App. - Filed Jun 10, 2003 - Published Dec 18, 2003 - Horn Richard Van - Horn Richard Van
A **system creates** and distributes **electronic credentials** to members of Special Interest Groups (SIGs). The credentials may be relied upon by independent on-line third party merchants having no prior relationship to the individuals issued the credentials, to identify and characterize those individuals based on ...
Overview · Related · Discuss

Method for acquiring and revalidating an electronic credential

www.google.com/patents/US5642419
Grant - Filed Dec 13, 1995 - Issued Jun 24, 1997 - Sholom S. Rosen - Citibank N.A.
A **system** for open electronic commerce having a customer trusted agent securely communicating with a first money module, and a merchant trusted agent securely communicating with a second money module. Both trusted ... The **method** of claim 1, wherein said **electronic credential** is a credit or debit card. 5. ... **to create** ...
Overview · Related · Discuss

Electronic credentials verification and management system
www.google.com/patents/US7529682
Grant - Filed Dec 11, 2002 - Issued May 5, 2009 - Marilyn Grunzweig Geller - Medversant Technologies, Llc
A **credentials** record **system** that **creates** and maintains all personnel data **electronically** is disclosed. The **system** ... Claims(36). 1. A **method** for **electronically** verifying information pertaining to applicants over a communication network including a plurality of computing devices, the **method** comprising:.
Overview · Related · Discuss

Methods and systems for secure digital credentials
www.google.com/patents/WO2017118989A1?cl=en
App. - Filed Dec 22, 2016 - Published Jul 6, 2017 - Clayton C. Bonnell - United States Postal Service
The **method** includes logging a first administrative user into the **digital credential system**, receiving, from the first administrative user, a first portion of ... [0023] While existing electronic postmark solutions can determine whether an electronic document has changed since the postmark was **created**, they are ...
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CPC- SEARCHED

Symbol	Date	Examiner
H04L63/08	12/4/2017	WN
G06Q20/3274	12/4/2017	WN
G06Q30/0251	12/4/2017	WN

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Class	Subclass	Date	Examiner
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Google Scholar	12/4/2017	WN
Google Patent Search	12/4/2017	WN
East classification 705, 713, 726 and 380 with text	12/4/2017	WN
Inventor Search	12/4/2017	WN
Assignee Search	12/4/2017	WN
CPC classification search with limited text	12/4/2017	WN
IP.com search	12/4/2017	WN

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EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L3	772	(stor$3 verif$3) WITH (credential identifier id) SAME (mobile smart iphone cell$5 laptop tablet) SAME scan$3 SAME (authenticat$3 authori$6)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/12/04 14:33
S1	23	(("SARKISSIAN") near3 ("Shaunt")).INV.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/11/30 18:32
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S3	3	S1 AND ((authenticat$3 verif$6) AND credential).clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/11/30 18:33
S4	6	cortex.inv.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/11/30 18:33
S5	117956	(verifying verification authenticat$3) WITH (credential code certificate) SAME (request$3 receiv$3 stor$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/11/30 18:37
S6	52551	(id identity identifier credential) WITH authenticat$3 SAME (generat$3 issu$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/11/30 18:38
S7	2162	(unencod$3 unscrambl$3 decipher$3	US-PGPUB;	OR	OFF	2017/11/30

		read$3) NEAR3 (code credential identifier id) WITH (authenticat$3 authori$6 verif$3 verification validity).clm.	USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			18:39
S8	109064	(H04L63/083 or H04L63/0861 or G06Q20/3821 or G06Q20/3274 or H04L63/08 or G06Q30/0251 or H04L2463/102).cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/11/30 18:39
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S15	313	(id identity identifier credential) WITH (generat$3 issu$3) WITH agency SAME request$3	US-PGPUB; USPAT; USOCR; FPRS; EPO;	OR	OFF	2017/11/30 19:39

			JPO; DERWENT; IBM_TDB			
S16	4812	authenticat$3 WITH (log$in access$3) SAME (document certificate file) WITH (storage repository)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/11/30 19:42
S17	3018	S16 AND @ad<"20121221"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/11/30 19:42
S18	109064	(H04L63/083 or H04L63/0861 or G06Q20/3821 or G06Q20/3274 or H04L63/08 or G06Q30/0251 or H04L2463/102).cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/11/30 19:42
S19	459	S17 AND S18	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/11/30 19:42
S20	11	"2012173311"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/11/30 19:44
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S22	3018	S16 AND @ad<"20121221"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/11/30 19:54
S23	703057	("705" "709" "713" "726" "380").clas.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/11/30 19:55
S24	1645	S17 AND S23	US-PGPUB; USPAT;	OR	OFF	2017/11/30 19:55

			USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			
S25	772	(stor$3 verif$3) WITH (credential identifier id) SAME (mobile smart iphone cell$5 laptop tablet) SAME scan$3 SAME (authenticat$3 authori$6)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/11/30 20:01
S26	47607	electronic ADJ document	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/11/30 20:01
S27	20	S25 AND S26	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/11/30 20:01
S28	32691	(stor$3 verif$3) AND (credential identifier id) AND (mobile smart iphone cell$5 laptop tablet) AND scan$3 AND (authenticat$3 authori$6).clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/11/30 20:06
S29	20851	S28 AND @ad<"20130312"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/11/30 20:06
S30	1422	(permit$4 permission grant$3) WITH access AND (valid invalid) NEAR4 credential	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/11/30 20:29
S31	37922	(generat$3 creat$3 produc$3 mak$3 build$3 construct$3) WITH (document file code identifier id) WITH (user client subscriber customer requester requesting NEAR2 (party entity)) WITH (service resource content information file document) WITH (identity identifier credential id) SAME (server service NEAR3 provider supplier database data NEAR2 warehouse)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/11/30 20:29
S32	19017	(unencod$3 unscrambl$3 decipher$3 read$3) NEAR3 (code credential identifier id) WITH (authenticat$3 authori$6 verif$3 verification validity)	US-PGPUB; USPAT; USOCR; FPRS; EPO;	OR	OFF	2017/11/30 20:29

			JPO; DERWENT; IBM_TDB			
S33	1106	S31 AND S32	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/11/30 20:29
S35	5	"2009307756"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/11/30 20:38
S36	82984	(generat$3 creat$3 produc$3 mak$3 build$3 construct$3) WITH (document file code identifier id) WITH (user client subscriber customer requester requesting NEAR2 (party entity)) WITH (service resource content information file document) WITH (identity identifier credential id)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/11/30 20:46
S41	7	"2012151206".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/12/04 12:14
S42	2156	(id identity identifier credential) WITH (generat$3 issu$3) WITH (agency organization third NEAR3 party) SAME request$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/12/04 12:16

EAST Search History (Interference)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	202	(authenticat$3 WITH (log$in) AND (document certificate file) WITH (storage repository)).clm.	US-PGPUB; USPAT	OR	OFF	2017/12/04 14:32
L2	141	L1 AND @ad<"20121221"	US-PGPUB; USPAT	OR	OFF	2017/12/04 14:33
S37	5786	((authenticat$3 verif$6) AND credential).clm.	US-PGPUB; USPAT	OR	OFF	2017/11/30 20:47
S38	904	((stor$3 verif$3) AND (credential identifier id) AND (mobile smart iphone cell$5 laptop tablet) AND scan$3 AND (authenticat$3 authori$6)).clm.	US-PGPUB; USPAT	OR	OFF	2017/11/30 20:47
S39	42040	(H04L63/083 or H04L63/0861 or G06Q20/3821 or G06Q20/3274 or H04L63/08 or G06Q30/0251 or	US-PGPUB; USPAT	OR	OFF	2017/11/30 20:48

		H04L2463/102).cpc.				
S40	192	S38 AND S39	US-PGPUB; USPAT	OR	OFF	2017/11/30 20:48
S43	500357	("705" "709" "713" "726" "380").clas.	US-PGPUB; USPAT	OR	OFF	2017/12/04 12:09
S44	5786	((authenticat$3 verif$6) AND credential).clm.	US-PGPUB; USPAT	OR	OFF	2017/12/04 12:10
S45	3509	S43 AND S44	US-PGPUB; USPAT	OR	OFF	2017/12/04 12:10
S46	283	((permit$4 permission grant$3) AND access AND (valid invalid) AND credential).clm.	US-PGPUB; USPAT	OR	OFF	2017/12/04 12:12
S47	3	(officially WITH verifiable WITH electronic AND credential).clm.	US-PGPUB; USPAT	OR	OFF	2017/12/04 12:13

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system and method for creating electronic credential

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System and method for electronic credentials
www.google.com/patents/US20150207789
App. - Filed Aug 13, 2013 - Published Jul 23, 2015 - Himalesh Cherukuvada Kumar - Tango Mobile, LLC
2015 entitled "**System and Method** for Mobile or Web-Based Payment/**Credential** Process" which is a U.S. national stage application of PCT application .... 23 is a functional block diagram of an ID/**credential system** illustrating a user manually storing in a secure storage device an ID/**credential created** by a ...
Overview · Related · Discuss

Systems and methods for generating and validating certified ...
www.google.com/patents/US20160294845
App. - Filed Sep 16, 2015 - Published Oct 6, 2016 - Christopher S. Jackson - Paradigm, Inc.
Systems and methods for generating and validating certified **electronic credentials** are disclosed. A certified electronic ... and academic credentials. The overall acceptance of the paper credential has **created** a market for fraudulent paper credentials, with an estimated $2 Billion worldwide market value.
Overview · Related · Discuss

Systems and methods for secure online credential authentication
www.google.com/patents/WO2017066688A1?cl=en
App. - Filed Oct 14, 2016 - Published Apr 20, 2017 - Blake HALL - Id.Me, Inc.
Systems, methods, and non-transitory computer-readable medium are disclosed includes for secure **online credential** authentication. One **method** ...
Overview · Related · Discuss

Systems and methods for secure online credential authentication
www.google.com/patents/US20170111358
App. - Filed Oct 14, 2016 - Published Apr 20, 2017 - Blake Hall - Id.Me, Inc.
Systems, methods, and non-transitory computer-readable medium are disclosed includes for secure **online credential** authentication. One **method** includes receiving, over an electronic network, identification information from an identity provider; accessing, from a database, previously stored hashed ...
Overview · Related · Discuss

Electronic credentials verification and management system
www.google.com/patents/US8131558
Grant - Filed May 4, 2009 - Issued Mar 6, 2012 - Marilyn Grunzweig Geller - Medversant Technologies, Inc.
A **credentials** record **system** that **creates** and maintains all personnel data **electronically** is disclosed. The **system** captures personnel background data, such as ... A **method** for **electronically** verifying **credentials** information pertaining to applicants over a communications network, the **method** comprising:.
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Systems and methods for generating and validating certified ...
www.google.com/patents/WO2016160052A1?cl=en
App. - Filed Sep 14, 2015 - Published Oct 6, 2016 - Christopher S. JACKSON - Paradigm, Inc.
Systems and methods for generating and validating certified **electronic credentials** are disclosed. A certified **electronic credential** may comprise a computer-readable file representative of a credential bestowed upon a recipient, in which the file is protected with one or more document integrity and ... **created** ...
Overview · Related · Discuss

Method and system for providing characterized on-line identities and ...
www.google.com/patents/WO2003105396A1?cl=en
App. - Filed Jun 10, 2003 - Published Dec 18, 2003 - Horn Richard Van - Horn Richard Van
A **system creates** and distributes **electronic credentials** to members of Special Interest Groups (SIGs). The credentials may be relied upon by independent on-line third party merchants having no prior relationship to the individuals issued the credentials, to identify and characterize those individuals based on ...
Overview · Related · Discuss

Method for acquiring and revalidating an electronic credential

www.google.com/patents/US5642419
Grant - Filed Dec 19, 1995 - Issued Jun 24, 1997 - Sholom S. Rosen - Citibank N.A.
A **system** for open electronic commerce having a customer trusted agent securely communicating with a first money module, and a merchant trusted agent securely communicating with a second money module. Both trusted ... The **method** of claim 1, wherein said **electronic credential** is a credit or debit card. 5. .... **to create** ...
Overview · Related · Discuss

Electronic credentials verification and management system
www.google.com/patents/US7529682
Grant - Filed Dec 11, 2002 - Issued May 5, 2009 - Marilyn Grunzweig Geller - Medversant Technologies, Llc
A **credentials** record **system** that **creates** and maintains all personnel data **electronically** is disclosed. The **system** ... Claims(36). 1. A **method** for **electronically** verifying information pertaining to applicants over a communication network including a plurality of computing devices, the **method** comprising:.
Overview · Related · Discuss

Methods and systems for secure digital credentials
www.google.com/patents/WO2017116089A1?cl=en
App. - Filed Dec 22, 2016 - Published Jul 6, 2017 - Clayton C. Bonnell - United States Postal Service
The **method** includes logging a first administrative user into the **digital credential system**, receiving, from the first administrative user, a first portion of ... [0029] While existing electronic postmark solutions can determine whether an electronic document has changed since the postmark was **created**, they are ...
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1. **File format and platform for storage and verification of credentials**

   In various embodiments, a computer-implemented method for generating and verifying officially verifiable electronic representations may be disclosed. The method may comprise receiving, by a credential database, a request for a credential action. The credential database may be configured to store one...

   CURRENT ASSIGNEES: CORTEX MCP INC
   EP2936370A1 | EUROPEAN APPLICATIONS | 28-OCT-2015

2. **File format and platform for storage and verification of credentials**

   In various embodiments, a computer-implemented method for generating and verifying officially verifiable electronic representations may be disclosed. The method may comprise receiving, by a credential database, a request for a credential action. The credential database may be configured to store one...

   CURRENT ASSIGNEES: CORTEX MCP INC
   WO2014100628A1 | WIPO APPLICATIONS | 26-JUN-2014

3. **File format and platform for storage and verification of credentials**

   In various embodiments, a computer-implemented method for generating and verifying officially verifiable electronic representations may be disclosed. The method may comprise receiving, by a credential database, a request for a credential action. The credential database may be configured to store one...

   CURRENT ASSIGNEES: CORTEX MCP INC
   US9251531 | US PATENTS | 02-FEB-2016

4. **File format and platform for storage and verification of credentials**

   In various embodiments, a computer-implemented method for generating and verifying officially verifiable electronic representations may be disclosed. The method may comprise receiving, by a credential database, a request for a credential action. The credential database may be configured to store one...

   CURRENT ASSIGNEES: CORTEX MCP INC
   US20140181927 | US APPLICATIONS | 26-JUN-2014

5. **File format and platform for storage and verification of credentials**

   In various embodiments, a computer-implemented method for generating and verifying officially verifiable electronic representations may be disclosed. The method may comprise receiving, by a credential database, a request for a credential action. The credential database may be configured to store one...

   CURRENT ASSIGNEES: CORTEX MCP INC
   CA2934873A1 | CANADIAN APPLICATIONS | 26-JUN-2014

6. **System and method for creating and administering electronic credentials**

   The system may be configured to create and manage electronic credential information. The system may generate, by the computer based system and via a token engine, a first token. The system may associate, by the computer based system, the first token and the first electronic identification...

   CURRENT ASSIGNEES: AMERICAN EXPRESS TRAVEL RELATED SRVC CO INC
   US20170200151 | US APPLICATIONS | 13-JUL-2017

7. **System and method for electronic credentials**

   The present disclosure describes systems and methods directed towards a highly secure and intelligent, end to end provisioning, authentication, and transaction system which creates and/or consolidates user data for a unified profile for the user (e.g., a person, place, organization, object, etc.) to...

   CURRENT ASSIGNEES: TANGO MOBILE LLC
   US20150207789 | US APPLICATIONS | 23-JUL-2015

8. **System and Method for Mobile or Web-Based Payment/Credential Process**

   The present disclosure describes systems and methods directed towards a highly secure and intelligent, end to end provisioning, authentication, and transaction system which creates and/or consolidates user data for a unified profile for the user (e.g., a person, place, organization, object, etc.) to...

   CURRENT ASSIGNEES: TANGO MOBILE LLC
   US20150235215 | US APPLICATIONS | 20-AUG-2015

9. **Systems and methods for generating and validating certified electronic credentials**

   Systems and methods for generating and validating certified electronic credentials are disclosed. A certified electronic credential may comprise a computer-readable file representative of a credential bestowed upon a recipient, in which the file is protected with one or more document integrity and...

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- PARADIGM INC (2)
- KUMAR HIMALESH CHERU... (3)
- KHAN SAL (10)
- LEGATUS SOLUTIONS CORP (1)

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CURRENT ASSIGNEES: PARADIGM INC
US20160294845 | US APPLICATIONS | 06-OCT-2016 Pats & Apps US20160149896 0 Filters

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10. Systems and methods for generating and validating certified electronic credentials

Systems and methods for generating and validating certified electronic credentials are disclosed. A certified electronic credential may comprise a computer-readable file representative of a credential bestowed upon a recipient, in which the file is protected with one or more document integrity and...

CURRENT ASSIGNEES: PARADIGM INC
WO2016160052A1 | WIPO APPLICATIONS | 06-OCT-2016

11. System And Method For Secure Transactions

The present disclosure describes systems and methods directed towards a highly secure and intelligent, end to end provisioning, authentication, and transaction system which creates and/or consolidates user data for a unified profile for the user (e.g., a person, place, organization, object, etc.) to...

CURRENT ASSIGNEES: TANGO MOBILE LLC
US20150237026 | US APPLICATIONS | 20-AUG-2015

12. System and method for secure transactions

The present disclosure describes systems and methods directed towards a highly secure and intelligent, end to end provisioning, authentication, and transaction system which creates and/or consolidates user data for a unified profile for the user (e.g., a person, place, organization, object, etc.) to...

CURRENT ASSIGNEES: TANGO MOBILE LLC
US9386003 | US PATENTS | 05-JUL-2016

13. System and method for electronic credentials

The present disclosure describes systems and methods directed towards a highly secure and intelligent, end to end provisioning, authentication, and transaction system which creates and/or consolidates user data for a unified profile for the user (e.g., a person, place, organization, object, etc.) to...

CURRENT ASSIGNEES: KUMAR HIMALESH CHERUKUVADA
WO2014028514A2 | WIPO APPLICATIONS | 20-FEB-2014

14. System and method for mobile or web-based payment/Credential process

The present disclosure describes systems and methods directed towards a highly secure and intelligent, end to end provisioning, authentication, and transaction system which creates and/or consolidates user data for a unified profile for the user (e.g., a person, place, organization, object, etc.) to...

CURRENT ASSIGNEES: KUMAR HIMALESH CHERUKUVADA
WO2014028516A1 | WIPO APPLICATIONS | 20-FEB-2014

15. Portable verifiable credentials and methods thereof

The migration of identity documents, such as driving licenses, from physical documents to electronic documents creates new problems for those seeking to verify the identity of an individual based upon the electronic document they provide. However, the inventors have established a means of binding...

CURRENT ASSIGNEES: KHAN SAL
CA2920718A1 | CANADIAN APPLICATIONS | 15-AUG-2017

16. Portable verifiable credentials and methods thereof

Security features of identity (ID) documents include visual security features, machine-readable security features, and embedded passive or active electronic circuits. Such security measures are bypassed, eliminated, or reduced in efficacy when the ID document is also provided in an electronic...

CURRENT ASSIGNEES: KHAN SAL
CA2931469A1 | CANADIAN APPLICATIONS | 27-SEP-2017

17. Portable verifiable credentials and methods thereof

The migration of identity documents, such as driving licenses, from physical documents to electronic documents creates new problems for those seeking to verify the identity of an individual based upon the electronic document they provide. However, the inventors have established a means of binding...

CURRENT ASSIGNEES: KHAN SAL
US20170324750 | US APPLICATIONS | 09-NOV-2017

18. System and method for secure transactions

The present disclosure describes systems and methods directed towards a highly secure and intelligent, end to end provisioning, authentication, and transaction system which creates and/or consolidates user data for a unified profile for the user (e.g., a person, place, organization, object, etc.) to...

CURRENT ASSIGNEES: KUMAR HIMALESH CHERUKUVADA
WO2014028510A2 | WIPO APPLICATIONS | 20-FEB-2014

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19. Method for storing, delivering, and displaying documentation and credentials related to intrastate and interstate commerce Discover Pats & Apps US20160149896 0 Filters

A method and apparatus for one office, such as a State's fuel tax licensing bureau, to deliver an electronic/digital certificate to a licensee's "folder" and allow an authorized user to share a link to that object. This solves the three key problems: object delivery and provenance, allowing the...

CURRENT ASSIGNEES: LEGATUS SOLUTIONS CORP
US20170200170 | US APPLICATIONS | 13-JUL-2017

20. Visual credential verification

A solution for visual credential verification. The solution includes an apparatus, system, and method embodiment. The apparatus for visual credential verification includes an input module, a comparison module, and a response module. The input module receives from a security official an image of an...

CURRENT ASSIGNEES: INTL BUSINESS MACHINES CORP
US8406480 | US PATENTS | 26-MAR-2013

21. Electronic credentials verification and management system

A credentials record system that captures personnel background data, such as license information, education and training, work experience, performance data and electronic signature at the time of entry using graphical user interfaces through a network, wherein it permits instant, sophisticated

CURRENT ASSIGNEES: FORTRESS CREDIT OPPORTUNITIES I LP
US8620676 | US PATENTS | 31-DEC-2013

22. Apparatus, system, and method for visual credential verification

A solution for visual credential verification. The solution includes an apparatus, system, and method embodiment. The apparatus for visual credential verification includes an input module, a comparison module, and a response module. The input module receives from a security official an image of an...

CURRENT ASSIGNEES: INTL BUSINESS MACHINES CORP
US20100209006 | US APPLICATIONS | 19-AUG-2010

23. Acquiring client device data

In one implementation, a processing system receives a request from a client device to access a user account of the user. In response to receiving the request, the processing system transmits credential data, which corresponds to a credential and which indicates client device data to transmit in...

CURRENT ASSIGNEES: MICROSTRATEGY INC
US9762564 | US PATENTS | 12-SEP-2017

24. Secure system and method for collecting, authenticating, and using personal data

A system for collecting, storing, authenticating, and managing personal information, such as identity data, skill data, qualification data, certification data, for individuals and/or organizations. The system surely collects identity, skill, qualification, and certification data and enables the...

CURRENT ASSIGNEES: BARNES ROBERT B [+1]
US20130340058 | US APPLICATIONS | 19-DEC-2013

25. Methods and apparatus for transacting with multiple domains based on a credential

In one embodiment, a method includes receiving from a credential a credential-owner authentication information associated with an identity of an individual. A issuer validation information associated with an issuer of the credential is also received. The method also includes providing a plurality of...

CURRENT ASSIGNEES: STOLLMAN JEFF
US20140189813 | US APPLICATIONS | 03-JUL-2014

26. Methods and apparatus for transacting with multiple domains based on a credential

In one embodiment, a method includes receiving from a credential a credential-owner authentication information associated with an identity of an individual. A issuer validation information associated with an issuer of the credential is also received. The method also includes providing a plurality of...

CURRENT ASSIGNEES: STOLLMAN JEFF
US9590968 | US PATENTS | 07-MAR-2017

27. Virtual credentials and licenses

Providing virtualized credentials of a holder includes authorizing a subset of credential data to be sent to a device of a relying party that is different from the holder, where the subset of credential data depends on a role of the relying party, selection by the holder, and/or contextual data of...

CURRENT ASSIGNEES: ASSA ABLOY AB
US20160380774 | US APPLICATIONS | 29-DEC-2016

28. Transactions using temporary credential data

STIC

A method is disclosed. The method includes receiving a credential request message requesting a temporary credential associated with a payment account, and then determining, by a server computer, using a routing table and data associated with the payment card, a third-party computer associated with...

CURRENT ASSIGNEES: VISA INTL SRVC ASSOC
US20150161597 | US APPLICATIONS | 11-JUN-2015

29. **Method and system for verification of personal information**

In one form, there is disclosed a system (100) for storing, validating and disseminating credential information about an entity. The system (100) generates data representing at least part of the credential information and a data representation of at least part of a document supporting that...

CURRENT ASSIGNEES: STAFFORD GRANT
US20090271321 | US APPLICATIONS | 29-OCT-2009

30. **Method and apparatus to perform online credential reporting**

Embodiments of the invention provide a process for displaying a graphical indicator on an Internet enabled device which conveys relationships between an entity associated with a website and third party entities with respect to the website entity. One example method may include obtaining the...

CURRENT ASSIGNEES: AVULI INC
US20160378880 | US APPLICATIONS | 29-DEC-2016

31. **Secure system and method for collecting, authenticating, and using personal data**

A system for collecting, storing, authenticating, and managing personal information, such as identity data, skill data, qualification data, certification data, for individuals and/or organiza-tions. The system surely collects identity, skill, qualification, and certification data and enables the...

CURRENT ASSIGNEES: INTL ASSOC FLIGHT TRAINING PROFESSIONALS INC
WO2013188301A2 | WIPO APPLICATIONS | 19-DEC-2013

32. **Methods and apparatus for transacting with multiple domains based on a credential**

In one embodiment, a method includes receiving from a credential a credential-owner authentication information associated with an identity of an individual. A issuer validation information associated with an issuer of the credential is also received. The method also includes providing a plurality of...

CURRENT ASSIGNEES: STOLLMAN JEFF
US20100116880 | US APPLICATIONS | 13-MAY-2010

33. **System and method for integrating multi-authentication operation**

The present invention discloses a system and method for integrating multi-authentication operation, which works through a communication network to carry out communication with at least two remote authentication systems. The two or more remote authentication systems are able to issue a certificate in...

CURRENT ASSIGNEES: SYSTEX CORP
TW200522653A | TAIWANESE APPLICATIONS | 01-JUL-2005

34. **Virtual credentials and licenses**

Providing virtualized credentials of a holder includes authorizing a subset of credential data to be sent to a device of a relying party that is different from the holder, where the subset of credential data depends on a role of the relying party, selection by the holder, and/or contextual data of...

CURRENT ASSIGNEES: ASSA ABLOY AB PUBL
EP3142064A1 | EUROPEAN APPLICATIONS | 15-MAR-2017

35. **Methods and apparatus for transacting with multiple domains based on a credential**

In one embodiment, a method includes receiving from a credential a credential-owner authentication information associated with an identity of an individual. A issuer validation information associated with an issuer of the credential is also received. The method also includes providing a plurality of...

CURRENT ASSIGNEES: STOLLMAN JEFF
US8549589 | US PATENTS | 01-OCT-2013

36. **Credential management**

In general, one aspect of the subject matter described in this specification can be embodied in methods that include receiving a registration request from a mobile device to create a credential management account for a user associated with the mobile device; generating a public key and a paired...

CURRENT ASSIGNEES: MICROSTRATEGY INC
US9730065 | US PATENTS | 08-AUG-2017

37. **Method and apparatus to perform online credential reporting**

Embodiments of the invention provide a process for displaying a graphical indicator on an Internet enabled device which conveys relationships between an entity associated with a website and third party entities with respect to the website entity. One example method may include obtaining the...

CURRENT ASSIGNEES: AVULI INC
US9449195 | US PATENTS | 20-SEP-2016 Discover Pats & Apps US20160149896 0 Filters

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38. Method and system for verification of personal information

In one form, there is disclosed a system (100) for storing, validating and disseminating credential information about an entity. The system (100) generates data representing at least part of the credential information and a data representation of at least part of a document supporting that...

CURRENT ASSIGNEES: STAFFORD GRANT
WO2007137368A1 | WIPO APPLICATIONS | 06-DEC-2007

39. Method and apparatus to perform online credential reporting

Embodiments of the invention provide a process for displaying a graphical indicator on an Internet enabled device which conveys relationships between an entity associated with a website and third party entities with respect to the website entity. One example method may include obtaining the...

CURRENT ASSIGNEES: AVULI INC
US20100192068 | US APPLICATIONS | 29-JUL-2010

40. Credential technology

In one implementation, a server system receives, from a device of a user, a request to validate a credential of a second user. The server system identifies the credential of the second user to validate based on the request received from the device of the first user. The server system confirms that...

CURRENT ASSIGNEES: MICROSTRATEGY INC
US9516018 | US PATENTS | 06-DEC-2016

41. Verification System

In described embodiments, a verification system allows for registration of credential providing entities and storage of credential data from, and verified by, the credential providing entities. The verification system further allows for users, through a credential and verification device associated...

CURRENT ASSIGNEES: VERIFY INC
US20140304183 | US APPLICATIONS | 09-OCT-2014

42. Peer forward authorization of digital requests

Embodiments may enable a user to forward authorize a specific amount to a member of their payment pool by distributing a subtoken generated from a token issued to the user. The member of the payment pool may receive the subtoken through a delivery channel (e.g., by e-mail) and may utilize the...

CURRENT ASSIGNEES: VISA INTL SRVC ASSOC
US20160239842 | US APPLICATIONS | 18-AUG-2016

43. Systems, methods and apparatus for secure printing of negotiable instruments

A secure system for requesting, approving, and printing negotiable instruments operates in a web-enabled browser-based environment. Users at a remote location connect to a central server using a conventional browser on a client computer via the Internet or another network. The user provides a...

CURRENT ASSIGNEES: MONEYGRAM PAYMENT SYS INC
US20030014368 | US APPLICATIONS | 16-JAN-2003

44. Credential Verification using Credential Repository

A credential repository securely stores user credentials. The credential repository may be accessed by multiple entities. Instead of having a user carry his credentials with him (e.g., on a credit card or driver's license, which can be lost or stolen), the user's credentials are retrieved from the...

CURRENT ASSIGNEES: INTL BUSINESS MACHINES CORP
US20090119756 | US APPLICATIONS | 07-MAY-2009

45. Authentication systems and methods for credential activation and provisioning

Authentication systems and methods are provided for credential activation and/or provisioning. A transaction is made by a transaction processor to a user's credential account that contains a value and an activation code. The user retrieves the activation code from his or her account and provides it...

CURRENT ASSIGNEES: VISA INTL SRVC ASSOC
US20160292686 | US APPLICATIONS | 06-OCT-2016

46. Layered security for age verification and transaction authorization

A user may be willing to purchase items or participate in a pay-for service offered by a service provider. A service provider may wish to verify characteristics of the user prior to allowing transactions to take place, and may want to secure the transactions once the transactions are allowed. A...

CURRENT ASSIGNEES: CARDLOGIX CORP
US20130138570 | US APPLICATIONS | 30-MAY-2013

Credential Verification using Credential Repository

Discover Pats & Apps US20160149896 0 Filters

STIC

47. A credential repository securely stores user credentials. The credential repository may be accessed by multiple entities. Instead of having a user carry his credentials with him (e.g., on a credit card or driver's license, which can be lost or stolen), the user's credentials are retrieved from the...

CURRENT ASSIGNEES: INTL BUSINESS MACHINES CORP
US20090119757 | US APPLICATIONS | 07-MAY-2009

48. **Peer forward authorization of digital requests**

Embodiments may enable a user to forward authorize a specific amount to a member of their payment pool by distributing a subtoken generated from a token issued to the user. The member of the payment pool may receive the subtoken through a delivery channel (e.g., by e-mail) and may utilize the...

CURRENT ASSIGNEES: VISA INTL SRVC ASSOC
WO2016130764A1 | WIPO APPLICATIONS | 18-AUG-2016

49. **Layered security for age verification and transaction authorization**

A user may be willing to purchase item or participate in a pay-for service offered by a service provider. A service provider may wish to verify characteristics of the user prior to allowing transactions to take place, and may want to secure the transactions once the transactions are allowed. A...

CURRENT ASSIGNEES: ROSS BRUCE
WO2013082329A1 | WIPO APPLICATIONS | 06 JUN-2013

50. **Verification System**

In described embodiments, a verification system allows for registration of credential providing entities and storage of credential data from, and verified by, the credential providing entities. The verification system further allows for users, through a credential and verification device associated...

CURRENT ASSIGNEES: VERIF Y INC
US20150278824 | US APPLICATIONS | 01-OCT-2015

Show next: 50 | 100 | 250 | 500 | 1000 Results

Application Number	Application/Control No.	Applicant(s)/Patent under Reexamination
	14/982,981	SARKISSIAN, SHAUNT M.

Document Code - DISQ	Internal Document – DO NOT MAIL

TERMINAL DISCLAIMER	☒ APPROVED	☐ DISAPPROVED
Date Filed : 11/22/17	This patent is subject to a Terminal Disclaimer	

Approved/Disapproved by:
jean proctor

U.S. Patent and Trademark Office

PTO/AIA/26 (04-14)
Approved for use through 07/31/2016. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
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TERMINAL DISCLAIMER TO OBVIATE A DOUBLE PATENTING REJECTION OVER A "PRIOR" PATENT	Docket Number (Optional) 1402374.00032

In re Application of: Shaunt M. Sarkissian

Application No.: 14/982,981

Filed: 12/29/2015

For: FILE FORMAT AND PLATFORM FOR STORAGE AND VERIFICATION OF CREDENTIALS

The applicant, Shaunt M. Sarkissian, owner of 100 percent interest 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** No. 9,251,531 as the term of said **prior patent** is presently shortened by any terminal disclaimer. The applicant 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 applicant 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.

Check either box 1 or 2 below, if appropriate.

1. ☐ The undersigned is the applicant. If the applicant is an assignee, the undersigned is authorized to act on behalf of the assignee.

I hereby acknowledge that any willful false statements made are punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.

2. ☑ The undersigned is an attorney or agent of record. Reg. No. 67,954

/Jordan A. Kwan/	November 22, 2017
Signature	Date

Jordan A. Kwan
Typed or printed name

Attorney	(949) 623-3576
Title	Telephone Number

☑ Terminal disclaimer fee under 37 CFR 1.20(d) included.

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

This collection of information is required by 37 CFR 1.321. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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

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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.
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5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
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 Patent Application Fee Transmittal

Application Number:	14982981
Filing Date:	29-Dec-2015
Title of Invention:	FILE FORMAT AND PLATFORM FOR STORAGE AND VERIFICATION OF CREDENTIALS
First Named Inventor/Applicant Name:	Shaunt M. Sarkissian
Filer:	Jordan Anthony Kwan/Michelle Begay
Attorney Docket Number:	1402374.00032

Filed as Small Entity

Filing Fees for Utility under 35 USC 111(a)

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

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Miscellaneous:				
STATUTORY OR TERMINAL DISCLAIMER	2814	1	160	160
		Total in USD ($)		**160**

Electronic Acknowledgement Receipt

EFS ID:	31034310
Application Number:	14982981
International Application Number:	
Confirmation Number:	6268
Title of Invention:	FILE FORMAT AND PLATFORM FOR STORAGE AND VERIFICATION OF CREDENTIALS
First Named Inventor/Applicant Name:	Shaunt M. Sarkissian
Customer Number:	26285
Filer:	Jordan Anthony Kwan/Michelle Begay
Filer Authorized By:	Jordan Anthony Kwan
Attorney Docket Number:	1402374.00032
Receipt Date:	22-NOV-2017
Filing Date:	29-DEC-2015
Time Stamp:	17:38:55
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	112417INTEFSW00006903021818
Deposit Account	
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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	Miscellaneous Incoming Letter	1402374_00032_Transmittal.pdf	30062 542989edab0ed13b3f99d6acf736eef83d8d4d10	no	2
Warnings:					
Information:					
2	Terminal Disclaimer Filed	1402374_00032_Terminal_Disclaimer.pdf	114240 251a7dce1ee81843bbc5924a0f7fa938599e16af	no	2
Warnings:					
Information:					
3	Fee Worksheet (SB06)	fee-info.pdf	30814 cdd76086f15c7fb33420e5e86cf390fdf9470aa4	no	2
Warnings:					
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		Total Files Size (in bytes):	175116		

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New Applications Under 35 U.S.C. 111
If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.
National Stage of an International Application under 35 U.S.C. 371
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.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant:	Shaunt M. Sarkissian	)	**Examiner:**	Nipa, Wasika
		)		
Serial No:	14/982,981	)	**Art Unit:**	2433
		)		
Filing Date:	December 29, 2015	)		
		)		
Confirmation No:	6268	)		

Title: FILE FORMAT AND PLATFORM FOR STORAGE AND VERIFICATION OF CREDENTIALS

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

TRANSMITTAL FOR THE TERMINAL DISCLAIMER

Submitter herewith is Terminal Disclaimer to obviate a double patenting rejection over Patent No. 9,251,531.

Claims 1-20 are rejected on the grounds of nonstatutory double patenting as being unpatentable over claims 1-20 of U.S. Patent No. 9,251,531. Applicant respectfully submits herewith a terminal disclaimer in compliance with 37 C.F.R. 1.321(c).

Applicant respectfully asserts that the claims in the present application are not identical to the claims in the '531 patent, and therefore the filing of the terminal disclaimer would obviate the issues in the nonstatutory double patenting rejection. For example, claim 1 of the present application is directed to a computer-implemented method "by an officially verifiable electronic representation (OVER) file verifying device." All of the method steps of claim 1, such as "accessing," "transmitting," "receiving," and "outputting," are performed by the "OVER file verifying device." An example of the OVER file verifying device is element 6 in Fig. 1. In contrast, claim 1 of the '531 patent is directed to a computer-implemented method by an "officially verifiable electronic representation (OVER) generation and verification engine." An example of the OVER file generation and verification engine is element 8 of Fig. 1. Clearly, the entities are completely distinct. There exist interactions between the OVER file verifying device and the OVER file

generation and verification engine, which may explain why there are words in both sets of claims that are similar, but the actual meaning of the arrangement of the words in the claims directs the claim sets to completely different entities. In fact, the fact that there are interactions between the entities proves that the subject matter of the claims in the present application are distinct from those in the '531 patent. In addition, claim 1 of the present application recites "wherein the OVER file is itself a new credential of the user," and the claims of the '531 patent do not include such elements.

Accordingly, Applicant respectfully requests that the rejection of claims 1-20 on the grounds of nonstatutory double patenting be withdrawn.

If there are any additional charges, please charge Deposit Account No. 02-1818.

Respectfully submitted,

K&L Gates LLP

Dated: November 22, 2017

/Jordan A. Kwan/

Jordan A. Kwan
Reg. No. 67,954

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant:	Shaunt M. Sarkissian)	**Examiner:**	NIPA, WASIKA
Serial No:	14/982,981)	**Art Unit:**	2433
Filing Date:	December 29, 2015)	**Atty. Docket No.:**	1402374.00032
Confirmation No:	6268)		

Title: FILE FORMAT AND PLATFORM FOR STORAGE AND VERIFICATION OF CREDENTIALS

AMENDMENT AND RESPONSE TO OFFICE ACTION

K&L Gates LLP
Palo Alto, California 94301
October 23, 2017

VIA ELECTRONIC FILING

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

Dear Commissioner:

The present Amendment and Response is in reply to the Non-Final Office Action dated April 21, 2017, in which the three-month period for response expires on July 21, 2017. In response to the Non-Final Office Action, Applicant submits the following:

Amendments to the Claims according to the **Listing of Claims** beginning on page 2; and

Remarks beginning on page 8.

LISTING OF CLAIMS

Please amend the claims as follows. This listing of claims will replace all prior versions and listing of claims in the application.

CLAIMS

1. (Currently Amended) A computer-implemented method comprising:

accessing, by an officially verifiable electronic representation (OVER) file verifying device, an OVER file stored on an OVER file client device, the OVER file comprising:

a virtual representation of [[the]]an original credential of a user that has been verified by an issuing agency to be an official representation of [[a]]the original credential of [[a]]the user for proving the user's identity or qualifications, based on information associated with the original credential of the user, wherein the OVER file is itself a new credential of the user;

the OVER file generated by an OVER engine configured to:

store the information associated with the original credential of the user; and

transmit the generated OVER file to the OVER file client device;

transmitting, by the OVER file verifying device, to the OVER engine, a verifying request to verify that the OVER file accessed from the client device authenticates the user;

receiving, by the OVER file verifying device, an authentication message comprising an indication of whether [[the]]a scan associated with the OVER file on the OVER file client device of the user corresponds to the information associated with the original credential of the user that is stored in the OVER engine; and

outputting a status indicator expressing whether the OVER file authenticates the user.

2. (Currently Amended) The computer-implemented method of claim 1, wherein the OVER file is a first OVER file, the OVER file ~~storage~~ client device of the user is a first OVER file

~~storage~~ client device of the user, the virtual representation is a first virtual representation, the official representation is a first official representation, the verifying request is a first verifying request, the authentication message is a first authentication message, the indication is a first indication, the status indicator is a first status indicator, and the method further comprises:

accessing, by the OVER file verifying device, a second OVER file stored on a second OVER file client device of the user, the second OVER file comprising a second virtual representation of the original credential that has been verified by the issuing agency to be a second official representation of the original credential that is invalid for use in the first OVER file ~~storage~~ client device for authenticating the user, wherein the second OVER file is itself a second new credential over the first OVER file and the original credential;

transmitting, by the OVER file verifying device, to the OVER engine, a second verifying request to verify that the second OVER file scanned at the second client device authenticates the user;

receiving, by the OVER file verifying device, a second authentication message comprising a second indication of whether the second scan associated with the second OVER file on the device of the user corresponds to the information associated with the original credential of the user that is stored in the OVER engine; and

outputting a second status indicator expressing whether the second OVER file authenticates the user.

3. (Currently Amended) The computer-implemented method of claim 1, wherein the OVER file further comprises a device identifier for the original credential configured to limit the original credential to the OVER file ~~storage~~ client device.

4. (Original) The computer-implemented method of claim 1, wherein the OVER file further comprises user-specific information.

5. (Original) The computer-implemented method of claim 4, wherein the user specific-information comprises at least one of:

biometric information, location information, a password, or a device identifier.

6. (Currently Amended) The computer-implemented method of claim 1, wherein the OVER file comprises a portion of the ~~stored~~ original credential stored by the OVER engine.

7. (Currently Amended) The computer-implemented method of claim 1, wherein the authentication message comprises an indication that the ~~credential~~ OVER file is expired.

8. (Original) The computer-implemented method of claim 1, further comprising accessing, by the verifying device, from the client device, additional credential information associated with the OVER file indicating whether a secondary condition for authorizing the user has been satisfied.

9. (Currently Amended) An officially verifiable electronic representation (OVER) file verifying device comprising:

a processor;

a memory unit operatively coupled to the processor, the memory unit configured to store information associated with an original credential of a user and a plurality of instructions, wherein the instructions are configured to cause the processor to perform operation comprising:

accessing an OVER file stored on an OVER file client device, the OVER file comprising:

a virtual representation of the original credential that has been verified by an issuing agency to be an official representation of [[a]]the original credential of [[a]]the user for proving the user's identity or qualifications, based on information associated with the original credential of the user, wherein the OVER file is itself a new credential of the user;

the OVER file generated by an OVER engine configured to:

store the information associated with the original credential of the user; and

transmit the generated OVER file to the OVER file client device;

transmitting to the OVER engine a verifying request to verify that the OVER file accessed from the client device authenticates the user;

receiving an authentication message comprising an indication of whether [[the]]a scan associated with the OVER file on the OVER file client device of the user corresponds to the information associated with the original credential of the user that is stored in the OVER engine; and

outputting a status indicator expressing whether the OVER file authenticates the user.

10. (Currently Amended) The device of claim 9, wherein the OVER file is a first OVER file, the OVER file ~~storage~~ client device of the user is a first OVER file ~~storage~~ client device of the user, the virtual representation is a first virtual representation, the official representation is a first official representation, the verifying request is a first verifying request, the authentication message is a first authentication message, the indication is a first indication, the status indicator is a first status indicator, and the operations further comprise:

accessing a second OVER file stored on a second OVER file client device of the user, the second OVER file comprising a second virtual representation of the original credential that has been verified by the issuing agency to be a second official representation of the original credential that is invalid for use in the first OVER file ~~storage~~ client device for authenticating the user;

transmitting to the OVER engine a second verifying request to verify that the second OVER file scanned at the second client device authenticates the user;

receiving a second authentication message comprising a second indication of whether the second scan associated with the second OVER file on the device of the user corresponds to the information associated with the original credential of the user that is stored in the OVER engine; and

outputting a second status indicator expressing whether the second OVER file authenticates the user.

11. (Currently Amended) The device of claim 9, wherein the OVER file further comprises a device identifier for the original credential configured to limit the original credential to the OVER file ~~storage~~ client device.

12. (Original) The device of claim 9, wherein the OVER file further comprises user-specific information.

13. (Original) The device of claim 12, wherein the user specific-information comprises at least one of:

biometric information, location information, a password, or a device identifier.

14. (Currently Amended) The device of claim 9, wherein the OVER file comprises a portion of the ~~stored~~ original credential stored by the OVER engine.

15. (Currently Amended) The device of claim 9, wherein the authentication message comprises an indication that the ~~credential~~ OVER file is expired.

16. (Original) The device of claim 9, further comprising accessing, by the verifying device, from the client device, additional credential information associated with the OVER file indicating whether a secondary condition for authorizing the user has been satisfied.

17. (Currently Amended) A non-transitory computer-readable medium comprising instructions that, when executed by a processor, cause the processor to perform operations comprising:

accessing an OVER file stored on an OVER file client device, the OVER file comprising:

a virtual representation of [[the]]an original credential that has been verified by an issuing agency to be an official representation of [[a]]the original credential of a user for proving the user's identity or qualifications, based on information associated with the original credential of the user, wherein the OVER file is itself a new credential of the user;

the OVER file generated by an OVER engine configured to:

store the information associated with the original credential of the user; and

transmit the generated OVER file to the OVER file client device;

transmitting to the OVER engine a verifying request to verify that the OVER file accessed from the client device authenticates the user;

receiving an authentication message comprising an indication of whether [[the]]a scan associated with the OVER file on the OVER file client device of the user corresponds to the information associated with the original credential of the user that is stored in the OVER engine; and

outputting a status indicator expressing whether the OVER file authenticates the user.

18. (Currently Amended) The computer readable medium of claim 17, wherein the OVER file is a first OVER file, the OVER file ~~storage~~ client device of the user is a first OVER file ~~storage~~ client device of the user, the virtual representation is a first virtual representation, the official representation is a first official representation, the verifying request is a first verifying request, the authentication message is a first authentication message, the indication is a first indication, the status indicator is a first status indicator, and the operations further comprise:

accessing a second OVER file stored on a second OVER file client device of the user, the second OVER file comprising a second virtual representation of the original credential that has been verified by the issuing agency to be a second official representation of the original credential that is invalid for use in the first OVER file ~~storage~~ client device for authenticating the user;

transmitting to the OVER engine a second verifying request to verify that the second OVER file scanned at the second client device authenticates the user;

receiving a second authentication message comprising a second indication of whether the second scan associated with the second OVER file on the device of the user corresponds to the information associated with the original credential of the user that is stored in the OVER engine; and

outputting a second status indicator expressing whether the second OVER file authenticates the user.

19. (Currently Amended) The computer readable medium of claim 17, wherein the OVER file further comprises a device identifier for the original credential configured to limit the original credential to the OVER file ~~storage~~ client device.

20. (Original) The computer readable medium of claim 17, wherein the OVER file further comprises user-specific information comprising at least one of:

biometric information, location information, a password, or a device identifier.

REMARKS

Claims 1-20 were pending in this application. Claims 1-3, 6-7, 9-11, 14-15 and 17-19 are amended. Support for the amendments may be found throughout the specification, such as, for example, Figs. 1 and 2, and paragraphs [0025]-[0035] of the specification. Thus, claims 1-20 remain pending. Favorable reconsideration of this application is respectfully requested in view of the following remarks.

Examiner Interview

Applicant thanks the Examiner for discussing the present application in an interview with the undersigned on July 11, 2017. During the interview, claim 1 was discussed. No agreement was reached.

Claim Objections

The Examiner has objected to claims 1-2, 6, 9-10, 14, 17 and 18 as failing to provide proper antecedent basis for the claimed subject matter and other formalities.

Applicant thanks the Examiner for her attention to detail and has amended the claims accordingly.

Double Patenting Rejection

Claims 1, 9 and 17 are rejected on the grounds of nonstatutory double patenting as being unpatentable over claims 1 and 21 of U.S. Patent No. 9,251,531. Although the claims at issue are not identical, the Examiner alleges they are not patentably distinct from each other because the claims in the U.S. Patent No. 9,251,531 contains every element of claims of the instant application.

Applicants respectfully disagrees with this characterization. While many of the words in the claims appear in both the present application and the claims of the '531 patent, a careful reading and understanding of the claims reveals that the claims are directed to entirely different subject matter. Principally, claim 1 of the present application is directed to a computer-implemented method "by an officially verifiable electronic representation (OVER) file verifying device." All of the method steps of claim 1, such as "accessing," "transmitting," "receiving," and "outputting," are performed by the "OVER file verifying device." An example of the OVER file

verifying device is element 6 in Fig. 1. In contrast, claim 1 of the '531 patent is directed to a computer-implemented method by an "officially verifiable electronic representation (OVER) generation and verification engine." An example of the OVER file generation and verification engine is element 8 of Fig. 1. Clearly, the entities are completely distinct. There exist interactions between the OVER file verifying device and the OVER file generation and verification engine, which may explain why there are words in both sets of claims that are similar, but the actual meaning of the arrangement of the words in the claims directs the claim sets to completely different entities. As such, Applicant respectfully asserts that in fact, the '531 patent does not contain every element of the claims of the instant application.

Applicant invites the Examiner to contact the undersigned for any additional clarification on this issue, if desired.

Rejections Under 35 U.S.C. § 103(a)

At page 10, paragraph 8 of the Office Action, claims 1-20 were rejected under pre-AIA 35 U.S.C. § 103(a) as allegedly being unpatentable over U.S. Patent Publication No. 2009/0307756 to Kang, (Kang), in view of U.S. Patent Publication No. 2012/0240204 to Bhatnagar, et al., (Bhatnagar). Applicant respectfully traverses the obviousness rejection in view of the following remarks.

As amended, claim 1 recites:

1. (Currently Amended) A computer-implemented method comprising:

accessing, by an officially verifiable electronic representation (OVER) file verifying device, an OVER file stored on an OVER file client device, the OVER file comprising:

a virtual representation of [[the]]<u>an original</u> credential <u>of a user</u> that has been verified by an issuing agency to be an official representation of [[a]]<u>the original</u> credential of [[a]]<u>the</u> user for proving the user's identity or qualifications, based on information associated with the <u>original</u> credential of the user<u>, wherein the OVER file is itself a new credential of the user</u>;

the OVER file generated by an OVER engine configured to:

store the information associated with the original credential of the user; and

transmit the generated OVER file to the OVER file client device;

transmitting, by the OVER file verifying device, to the OVER engine, a verifying request to verify that the OVER file accessed from the client device authenticates the user;

receiving, by the OVER file verifying device, an authentication message comprising an indication of whether [[the]]a scan associated with the OVER file on the OVER file client device of the user corresponds to the information associated with the original credential of the user that is stored in the OVER engine; and

outputting a status indicator expressing whether the OVER file authenticates the user.

Applicant respectfully asserts that neither Kang nor Bhatnagar, taken either singly or in combination, teaches or suggests all of the elements of amended claim 1.

For example, Applicant respectfully asserts that Kang in view of Bhatnagar fails to teach or suggest "*the OVER file comprising: a virtual representation of an original credential of a user that has been verified by an issuing agency to be an official representation of the original credential of the user for proving the user's identity or qualifications, based on information associated with the original credential of the user, wherein the OVER file is itself a new credential of the user*," as recited in claim 1.

The Examiner alleges that the previously presented portions of these elements are disclosed in paragraphs [0044], [0048], and [0054] of Kang. Applicant respectfully disagrees that these paragraphs disclose the aforementioned elements of claim 1.

Kang discloses an electronic document repository system 101 and methods for how to properly access and manipulate the electronic documents. There are described methods for authenticating the user and determining, based on that authentication, what level of access the user has to view and modify the electronic documents.

However, these passages in Kang discuss three completely different aspects in the electronic document repository system 101. Paragraph [0044] discusses how an electronic document is first authenticated when it is entered into the system 101. Paragraph [0048]

discusses what the issuing module 106 does, i.e., controls and manages issuing the electronic documents according to a user's issue right, including protecting against forgeries and falsifications. Paragraph [0054] discusses a particular function of what the certification module 109 does (see paragraph [0053]), i.e., generates a unique identifier of the certificate and a security value for guaranteeing integrity of the electronic document.

It is unclear where these paragraphs discuss an *OVER file comprising a virtual representation of an original credential of a user that has been verified by an issuing agency to be an official representation of the original credential of the user for proving the user's identity or qualifications, based on information associated with the original credential of the user*, as recited in claim 1. While Kang discusses a method for verifying **the integrity of electronic documents**, it does not appear that a "credential **of a user**" is discussed in these passages at all, let alone an "OVER file comprising a virtual representation of an original credential of a user." Furthermore, it is unclear where these passages discuss any virtual representation that is "verified to be an official representation of the original credential of the user."

The Examiner mentioned in the examiner interview that other references may be cited to teach these elements. Applicant invites the Examiner to supply any of these additional references to allegedly disclose these elements.

In addition, and for clarity, claim 1 has been amended to clarify that the OVER file is itself a new credential of the user, distinct and separate from the original credential from which the OVER file is generated, at least in part. Kang makes no mention of such elements.

Bhatnagar has not been relied on to teach the aforementioned elements of claim 1, and indeed, Bhatnagar fails to make up for these deficiencies. Bhatnagar discusses systems and methods of authentication comprising use of one time passwords and out-of-band outbound communication channels. Nowhere does Bhatnagar discuss an OVER file comprising a virtual representation of an original credential of a user that has been verified by an issuing agency to be an official representation of the original credential of the user for proving the user's identity or qualifications, based on information associated with the original credential of the user, as recited in claim 1.

Furthermore, on pages 12-13 of the Office Action, the Examiner represents that the elements "receiving, by the OVER file verifying device, an authentication message comprising

an indication of whether the scan associated with the OVER file on the device of the user corresponds to the information associated with the credential of the user that is stored in the OVER engine" of claim 1, are disclosed by Bhatnagar at paragraphs [0045] and [0046].

Bhatnagar discusses a method of authentication between four devices: a user handheld device, a service client, and service server, and an authentication server. A succinct description of the interactions are described in FIG. 6 of Bhatnagar.

Claim 1 discusses three devices: an OVER file verifying device, an OVER engine, and a OVER file client device. It is unclear which of the four devices in Bhatnagar the examiner is representing correspond to the three devices described in claim 1. Clarification is desired so a proper response can be provided. It is also unclear, therefore, which of the devices in Bhatnagar represents the OVER file verifying device, and of these, which device Bhatnagar discloses "*receiving, by the OVER file verifying device, an authentication message comprising an indication of whether a scan associated with the OVER file on the device of the user corresponds to the information associated with the original credential of the user that is stored in the OVER engine.*" Applicant respectfully asserts that the exact interactions between the OVER file verifying device, the OVER engine, and the OVER file client device, as recited in claim 1, are not properly matched in the teachings of Bhatnagar. Applicant requests that the Examiner provide more explanation of the interactions between the devices in Bhatnagar so that a proper comparison can be made.

For at least these reasons, Applicant respectfully asserts that claim 1 is patentable over Kang in view of Bhatnagar, and is in condition for allowance.

Claims 2-8, which depend from claim 1, are in condition for allowance for at least the reasons discussed in relation to claim 1, as well as for the additional elements they recite.

Claim 2

For additional emphasis, Applicant respectfully asserts that claim 2 is also patentable over Kang in view of Bhatnagar for the elements it individually recites. For example, Applicant respectfully asserts that Kang in view of Bhatnagar fails to teach or suggest "*the second OVER file comprising a second virtual representation of the original credential that has been verified by the issuing agency to be a second official representation of the original credential* ***that is invalid for use in the first OVER file client device for authenticating the user.***" In other words,

claim 2 recites a computer implemented method that verifies two separate OVER files for authenticating the same user, using two separate OVER file client devices, because the second OVER file is invalid for use in the first OVER file client device. Bhatnagar fails to describe such a scenario, and Kang fails to make up for such a deficiency.

Claims 9 and 17, which recite elements similar to claim 1, are in condition for allowance for at least the reasons discussed in relation to claim 1, as well as for the additional elements they recite.

Claims 10-16 and 18-20, which depend from their respective independent claims, are in condition for allowance for at least the reasons discussed in relation to their respective independent claims, as well as for the additional elements they recite.

In view of the above, Applicant respectfully requests the withdrawal of the rejection under 35 U.S.C. § 103(a), and submits that the pending claims are in the condition for allowance.

Conclusion

In view of the foregoing remarks, Applicant respectfully submits that this application is now in condition for allowance. Accordingly, a timely Notice of Allowance to this effect is earnestly solicited. Nevertheless, Applicant respectfully requests that the Examiner contact the undersigned representative by telephone prior to issuing a subsequent Office Action to discuss any outstanding issues with this application in the event that the foregoing amendments and remarks fail to advance the present application to allowance.

Applicant does not otherwise concede, however, the correctness of the Office Action rejections with respect to any of the claims discussed above. Accordingly, Applicant hereby reserves the right to make additional arguments as may be necessary to further distinguish the claims from the cited reference based on the additional features contained in the dependent claims that were not discussed above as well as aspects of the independent claims not directly addressed above. A detailed discussion of these differences is believed to be unnecessary at this time in view of the basic differences discussed above with respect to the independent claims.

The Office is hereby authorized to charge any underpayment of fees, or credit any

overpayments, to Deposit Account No. 02-1818. Furthermore, if an extension is required, then the Applicant hereby requests such extension.

Respectfully submitted,

Date: October 23, 2017

/Jordan A. Kwan/
Jordan A. Kwan
Reg. No. 67,954

K&L GATES LLP
K&L Gates Center
210 Sixth Avenue
Pittsburgh, Pennsylvania 15222-2613

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E-Mail: jordan.kwan@klgates.com

Customer No. 26285

Electronic Patent Application Fee Transmittal

Application Number:	14982981
Filing Date:	29-Dec-2015
Title of Invention:	FILE FORMAT AND PLATFORM FOR STORAGE AND VERIFICATION OF CREDENTIALS
First Named Inventor/Applicant Name:	Shaunt M. Sarkissian
Filer:	Jordan Anthony Kwan/Michelle Begay
Attorney Docket Number:	1402374.00032

Filed as Small Entity

Filing Fees for Utility under 35 USC 111(a)

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

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Extension - 3 months with $0 paid	2253	1	700	700
Miscellaneous:				
			Total in USD ($)	**700**

Electronic Acknowledgement Receipt

EFS ID:	30732812
Application Number:	14982981
International Application Number:	
Confirmation Number:	6268
Title of Invention:	FILE FORMAT AND PLATFORM FOR STORAGE AND VERIFICATION OF CREDENTIALS
First Named Inventor/Applicant Name:	Shaunt M. Sarkissian
Customer Number:	26285
Filer:	Jordan Anthony Kwan/Michelle Begay
Filer Authorized By:	Jordan Anthony Kwan
Attorney Docket Number:	1402374.00032
Receipt Date:	23-OCT-2017
Filing Date:	29-DEC-2015
Time Stamp:	16:27:36
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	DA
Payment was successfully received in RAM	$700
RAM confirmation Number	102417INTEFSW00004016021818
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		1402374_00032_Response.pdf	84487 fb0497f315b7fb6d7336eae3f1539a4e54af4c5f	yes	15

Multipart Description/PDF files in .zip description

Document Description	Start	End
Amendment/Req. Reconsideration-After Non-Final Reject	1	1
Claims	2	8
Applicant Arguments/Remarks Made in an Amendment	9	15

Warnings:

Information:

2	Fee Worksheet (SB06)	fee-info.pdf	30875 ef9e8cc3e096a796a665ec2ee5bb0cd2128d7853	no	2

Warnings:

Information:

Total Files Size (in bytes):	115362

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.

PTO/SB/06 (09-11)
Approved for use through 1/31/2014. OMB 0651-0032
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PATENT APPLICATION FEE DETERMINATION RECORD

Substitute for Form PTO-875

Application or Docket Number	Filing Date	
14/982,981	12/29/2015	☐ To be Mailed

ENTITY: ☐ LARGE ☒ SMALL ☐ MICRO

APPLICATION AS FILED – PART I

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

APPLICATION AS AMENDED – PART II

AMENDMENT

10/23/2017	(Column 1) CLAIMS REMAINING AFTER AMENDMENT		(Column 2) HIGHEST NUMBER PREVIOUSLY PAID FOR	(Column 3) PRESENT EXTRA	RATE ($)	ADDITIONAL FEE ($)
Total (37 CFR 1.16(i))	* 20	Minus	** 20	= 0	x $40 =	0
Independent (37 CFR 1.16(h))	* 3	Minus	***3	= 0	x $210 =	0
☐ Application Size Fee (37 CFR 1.16(s))						
☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))						
					TOTAL ADD'L FEE	0

AMENDMENT

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

* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.
** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".
*** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3".
The "Highest Number Previously Paid For" (Total or Independent) is the highest number found in the appropriate box in column 1.

LIE
GAIL WOOTEN

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

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www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
14/982,981	12/29/2015	Shaunt M. Sarkissian	1402374.00032	6268

26285 7590 07/27/2017
K&L GATES LLP-Pittsburgh
210 SIXTH AVENUE
PITTSBURGH, PA 15222-2613

EXAMINER
NIPA, WASIKA

ART UNIT	PAPER NUMBER
2433	

NOTIFICATION DATE	DELIVERY MODE
07/27/2017	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):

USpatentmail@klgates.com

Applicant-Initiated Interview Summary	Application No.	Applicant(s)	
	14/982,981	SARKISSIAN, SHAUNT M.	
	Examiner	Art Unit	
	WASIKA NIPA	2433	

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

(1) *WASIKA NIPA*.

(2) _____.

(3)*Jordan Kwan*.

(4)_____.

Date of Interview: *11 July 2017*.

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*.

Identification of prior art discussed: *Bhatnagar and Kang*.

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...)

Applicant's representative explained the concept of the invention and discussed claim 1. Applicant's representative discussed various sections of rejection and examiner explained in details how the claim mapping was performed in the office action in light of reference Bhatnagar and Kang. Examiner also clarified various limitations in the claim and explained how she interpreted them. No agreement was reached.

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

/JAYESH JHAVERI/ Primary Examiner, Art Unit 2433	/WASIKA NIPA/ Examiner, Art Unit 2433

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 examiner's 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 applicant's 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 applicant's 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 examiner's 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 examiner's initials.

Examiner Interview Agenda re Final Office Action mailed April 21, 2017, for Application No. 14/982,981

Date and Time: July 11, 2017 at 1PM Eastern Time

Location: **Call Examiner Nipa 571-272-8923**

Attendees: Examiner Wasika Nipa, and Jordan Kwan

Dear Examiner Nipa,

Thank you again for agreeing to discuss the above matter in an interview at the above scheduled time. Please see the following proposed points of discussion in preparation for the interview:

1. Discuss generally the claims in light of the disclosure, to provide background and context.

2. Discuss the rejection of claim 1 in light of Kang in view of Bhatnagar.

Claim 1 recites:

1. (Original) A computer-implemented method comprising:

accessing, by an officially verifiable electronic representation (OVER) file verifying device, an OVER file stored on an OVER file client device **(Bhatnagar [0043])**, the OVER file comprising:

a virtual representation of the credential that has been verified by an issuing agency to be an official representation of a credential of a user for proving the user's identity or qualifications, based on information associated with the credential of the user; **(Kang [0044], [0048], [0054])**

the OVER file generated by an OVER engine configured to:

store the information associated with the credential of the user **(Kang, [0063])**; and

transmit the generated OVER file to the OVER file client device **(Kang [0071])**;

transmitting, by the OVER file verifying device, to the OVER engine, a verifying request to verify that the OVER file accessed from the client device authenticates the user (**Bhatnagar [0045], [0046]**);

receiving, by the OVER file verifying device, an authentication message comprising an indication of whether the scan associated with the OVER file on the device of the user corresponds to the information associated with the credential of the user that is stored in the OVER engine (**Bhatnagar [0046]**); and

outputting a status indicator expressing whether the OVER file authenticates the user (**Bhatangar [0053]**).

On pages 10-11 of the Non-Final Office Action dated April 21, 2017 (Office Action), the Examiner represents that the elements "*the OVER file comprising: a virtual representation of the credential that has been verified by an issuing agency to be an official representation of a credential of a user for proving the user's identity or qualifications, based on information associated with the credential of the user*" of claim 1 are disclosed in paragraphs [0044], [0048], and [0054] of Kang (US 2009/0307756).

Kang discloses an electronic document repository system 101 and methods for how to properly access and manipulate the electronic documents. There are described methods for authenticating the user and determining, based on that authentication, what level of access the user has to view and modify the electronic documents.

However, these passages in Kang discuss three completely different aspects in the electronic document repository system 101. Paragraph [0044] discusses how an electronic document is first authenticated when it is entered into the system 101. Paragraph [0048] discusses what the issuing module 106 does, i.e., controls and manages issuing the electronic documents according to a user's issue right, including protecting against forgeries and falsifications. Paragraph [0054] discusses a particular function of what the certification module 109 does (see paragraph [0053]), i.e., generates a unique identifier of the certificate and a security value for guaranteeing integrity of the electronic document.

It is unclear where these paragraphs discuss *an OVER file comprising* ***a virtual representation of the credential*** *that has been* ***verified by an issuing agency to be an official***

representation of a credential of a user *for proving the user's identity or qualifications, based on information associated with the credential of the user*, as recited in claim 1. It is unclear where a virtual representation of the credential is described in these paragraphs, including where that virtual representation is verified to represent the credential. Clarification is desired.

On pages 12-13 of the Office Action, the Examiner represents that the elements "receiving, by the OVER file verifying device, an authentication message comprising an indication of whether the scan associated with the OVER file on the device of the user corresponds to the information associated with the credential of the user that is stored in the OVER engine" of claim 1 are disclosed by Bhatnagar (2012/0240204) at paragraphs [0045] and [0046].

Bhatnagar discusses a method of authentication between four devices: a user handheld device, a service client, and service server, and an authentication server. A succinct description of the interactions are described in FIG. 6 of Bhatnagar.

Claim 1 discusses three devices: an OVER file verifying device, an OVER engine, and a client device. It is unclear which of the four devices in Bhatnagar the examiner is representing correspond to the three devices described in claim 1. Clarification is desired so a proper response can be provided. It is also unclear, therefore, which of the devices in Bhatnagar represents the OVER file verifying device, and of these, which device Bhatnagar discloses "*receiving, by the OVER file verifying device, an authentication message comprising an indication of whether the scan associated with the OVER file on the device of the user corresponds to the information associated with the credential of the user that is stored in the OVER engine*." Clarification is desired.

3. In general, the claims at issue mirror the claims of issued U.S. Patent 9,251,531, except that the claims are drawn to the third device in the system described in the disclosure, i.e., the OVER file verifying device. As such, it is unclear why the claims of U.S. Patent 9,251,531 are allowed and these would not be.

We are open to considering amending the claims to add clarifying terms, if it will help address any ambiguities in the claim.

We look forward to discussing at least these points during our interview. Please let us know of any questions or concerns in the meantime.

Sincerely,

/Jordan Kwan/

Jordan Kwan
Reg. No. 67,954
650.798.6734

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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EXAMINER
NIPA, WASIKA

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2433	

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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):

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Office Action Summary	Application No. 14/982,981	Applicant(s) SARKISSIAN, SHAUNT M.	
	Examiner WASIKA NIPA	Art Unit 2433	AIA (First Inventor to File) Status No

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

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

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

Status

1)☒ Responsive to communication(s) filed on *12/29/2015*.

☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on _____.

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

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

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

Disposition of Claims

5)☒ Claim(s) *1-20* is/are pending in the application.

5a) Of the above claim(s) _____ is/are withdrawn from consideration.

6)☐ Claim(s) _____ is/are allowed.

7)☒ Claim(s) *1-20* is/are rejected.

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

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

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

Application Papers

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

11)☒ The drawing(s) filed on *12/29/2015* is/are: a)☒ accepted or b)☐ objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

Priority under 35 U.S.C. § 119

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

Certified copies:

a)☐ All b)☐ Some * c)☐ None of the:

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

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

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

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

Attachment(s)

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

2) ☒ Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date _____.

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

4) ☐ Other: _____.

Detailed Action

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

2. 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.

3. Claims 1-20, as originally filed, are currently pending and have been considered below. Claim 1, 9 and 17 are independent claim.

Priority

4. The application is a continuation of 13/794,878 (US Patent No. 9,251,531) which claims benefit of 61/740,731 filed on 12/21/2012.

Claim Objection

5. Claim 1-2, 6, 9-10, 14 and 17-18 are objected to as failing to provide proper antecedent basis for the claimed subject matter.

Claim 1, 9 and 17 recite, “a virtual representation of the credential” and “whether the scan associated with the OVER file on the device of the user” and “the OVER file is accessed from the client device”.

Claim 1, 9 and 17 recite an OVER file verifying device and OVER file client device. So "the device" should refer to “the OVER file client device”.

Claim 2, 10 and 18 recite “the OVER file storage client device”.

Claim 6 and 14 recite, “the stored credential”.

Appropriate correction is required.

Double Patenting

6. 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 obviousness-type double patenting rejection is appropriate where the conflicting claims 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 conflicting 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.

Claims 1, 9 and 17 are rejected on the ground of nonstatutory double patenting as being unpatentable over claims 1 and 21 of U.S. Patent No. 9,251,531 B2. Although the claims at issue are not identical, they are not patentably distinct from each other because the claims in the U.S. Patent No. 9,251,531 B2 contains every element of claims of the instant application. Please

see the claim mapping below. A later patent claim is not patentably distinct from an earlier patent claim if the later claim is obvious over, or anticipated by, the earlier claim. In re Longi, 759 F.2d at 896, 225 USPQ at 651 (affirming a holding of obviousness-type double patenting because the claims at issue were obvious over claims in four prior art patents); In re Berg, 140 F.3d at 1437, 46 USPQ2d at 1233 (Fed. Cir. 1998) (affirming a holding of obviousness-type double patenting where a patent application claim to a genus is anticipated by a 35 patent claim to a species within that genus). "ELI LILLY AND COMPANY v BARR LABORATORIES, INC., United States Court of Appeals for the Federal Circuit, ON PETITION FOR REHEARING EN BANC (DECIDED: May 30, 2001).

Claim 1 and 17 of current application No. 14/982,981 is anticipated by claim 1 of US Patent No. 9,251,531 B2. Claims 2-8 and 18-20 are rejected because of their dependency on claim 1 and claim 17 respectively.

Claim 9 of current application No. 14/982,981 is anticipated by claim 21 of US Patent No. 9,251,531 B2. Claims 10-16 are rejected because of their dependency on claim 9.

U.S. Patent No. 9,251,531 B2 discloses following limitations of claim 1, 9 and 17 as shown in the table below.

Current Application No.(14/982,981)	Patent No.US 9,251,531 B2 (13/794,878)
Claim 1: 1. A computer-implemented method comprising:	Claim 1: 1. A computer-implemented method

	comprising:
accessing, by an officially verifiable electronic representation (OVER) file verifying device, an OVER file stored on an OVER file client device, the OVER file comprising:	receiving, from an OVER file third-party client verifying device, a verifying request to verify that the OVER file transmitted to the user authenticates the user based on a scan associated with the OVER file on the OVER file store client device of the user;
a virtual representation of the credential that has been verified by an issuing agency to be an official representation of a credential of a user for proving the user's identity or qualifications, based on information associated with the credential of the user;	generating, by a processor of the OVER engine, an OVER file comprising a virtual representation of the credential that has been verified by an issuing agency to be an official representation of the credential, based on the information associated with the credential of the user;
the OVER file generated by an OVER engine configured to:	
store the information associated with the credential of the user; and	storing, in a memory of an officially verifiable electronic representation (OVER) generation and verification engine, information associated with a credential of a user for proving the user's identity or qualifications;
transmit the generated OVER file to the OVER file client device;	
transmitting, by the OVER file verifying device, to the OVER engine, a verifying request to verify that the OVER file accessed from the client device authenticates the user;	transmitting, to the OVER file storage client device of the user, the OVER file in response to the OVER file generation request;
receiving, by the OVER file verifying device, an authentication message comprising an indication of whether the scan associated with the OVER file on the device of the user corresponds to the information associated with the credential of the user that is stored in the OVER engine; and	receiving, from an OVER file storage client device of the user, an OVER file generation request to provide authentication of the user based on the information associated with the credential;
outputting a status indicator expressing	verifying that the scan associated with the OVER file corresponds with the information associated with the credential of the user

whether the OVER file authenticates the user.	that is stored in the OVER engine, in response to the verifying request; and transmitting, to the OVER file third-party client verifying device, an authentication message comprising an indication of whether the scan associated with the OVER file on the device of the user corresponds to the information associated with the credential of the user that is stored in the OVER engine.
Claim 9: 9. An officially verifiable electronic representation (OVER) file verifying device comprising: a processor; a memory unit operatively coupled to the processor, the memory unit configured to store information associated with a credential of a user and a plurality of instructions, wherein the instructions are configured to cause the processor to perform operation comprising: accessing an OVER file stored on an OVER file client device, the OVER file comprising: a virtual representation of the credential that has been verified by an issuing agency to be an official representation of a credential of a user for proving the user's identity or qualifications, based on information associated with the credential of the user;	Claim 21: 21. An apparatus comprising: a processor; a memory unit operatively coupled to the processor, the memory unit configured to store information associated with a credential of a user and a plurality of instructions, wherein the instructions are configured to program the processor to: receive, from an officially verifiable electronic representation (OVER) file storage client device of the user, an OVER file generation request to provide authentication of the user based on the information associated with the credential; generate an OVER file comprising a virtual representation of the credential that has been verified by an issuing agency to be an official representation the credential, based on the information associated with the credential of the user;

the OVER file generated by an OVER engine configured to: store the information associated with the credential of the user; and transmit the generated OVER file to the OVER file client device; transmitting to the OVER engine a verifying request to verify that the OVER file accessed from the client device authenticates the user; receiving an authentication message comprising an indication of whether the scan associated with the OVER file on the device of the user corresponds to the information associated with the credential of the user that is stored in the OVER engine; and outputting a status indicator expressing whether the OVER file authenticates the user.	transmit, to the OVER file storage client device of the user, the OVER file in response to the first OVER file generation request; transmit, to the OVER file third-party client verifying device, an authentication message comprising a status indicator indicating whether the OVER file corresponds to the credential of the user; receive, from an OVER file third-party client verifying device, a verifying request to verify that the OVER file transmitted to the device of the user authenticates the user based on a scan associated with the OVER file on the device of the user; verify that the scan associated with the OVER file corresponds with the information associated with the credential of the user, in response to the verifying request; and
Claim 17: 17. A non-transitory computer-readable medium comprising instructions that, when executed by a processor, cause the processor to perform operations comprising: accessing an OVER file stored on an OVER file client device, the OVER file comprising:	Claim 1: 1. A computer-implemented method comprising: receiving, from an OVER file third-party client verifying device, a verifying request to verify that the OVER file transmitted to the user authenticates the user based on a scan associated with the OVER file on the

	OVER file store client device of the user;
a virtual representation of the credential that has been verified by an issuing agency to be an official representation of a credential of a user for proving the user's identity or qualifications, based on information associated with the credential of the user;	generating, by a processor of the OVER engine, an OVER file comprising a virtual representation of the credential that has been verified by an issuing agency to be an official representation of the credential, based on the information associated with the credential of the user;
the OVER file generated by an OVER engine configured to:	
store the information associated with the credential of the user; and	storing, in a memory of an officially verifiable electronic representation (OVER) generation and verification engine, information associated with a credential of a user for proving the user's identity or qualifications;
transmit the generated OVER file to the OVER file client device;	
transmitting to the OVER engine a verifying request to verify that the OVER file accessed from the client device authenticates the user;	transmitting, to the OVER file storage client device of the user, the OVER file in response to the OVER file generation request;
receiving an authentication message comprising an indication of whether the scan associated with the OVER file on the device of the user corresponds to the information associated with the credential of the user that is stored in the OVER engine; and	receiving, from an OVER file storage client device of the user, an OVER file generation request to provide authentication of the user based on the information associated with the credential;
outputting a status indicator expressing whether the OVER file authenticates the user.	verifying that the scan associated with the OVER file corresponds with the information associated with the credential of the user that is stored in the OVER engine, in response to the verifying request; and
	transmitting, to the OVER file third-party client verifying device, an authentication message comprising an indication of whether the scan associated with the OVER file on the device of the user corresponds to the information associated

	with the credential of the user that is stored in the OVER engine.

This is a non-provisional non-statutory double patenting rejection because the conflicting claims have been patented.

Claim Rejections - 35 USC § 103

7. 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 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
> .

8. **Claim 1-20 are rejected under pre-AIA 35 U.S.C. 103(a) as being unpatentable over Kang (US Patent Application Publication No. 2009/0307756 A1) in view of Bhatnagar (US Patent Application Publication No. 2012/0240204 A1).**

9. **Regarding Claim 1**, Kang discloses a computer-implemented method comprising:

the OVER file comprising:

a virtual representation of the credential that has been verified by an issuing agency to be an official representation of a credential of a

user for proving the user's identity or qualifications, based on information associated with the credential of the user (Kang, ¶[0044], the electronic document repository system checks the electronic document information package, produces metadata, appends authentication information such as an electronic signature. ¶[0048], the issuing module serves to control and manage issuing of the electronic document according to user's issue right upon receipt of a request from the user. Also ¶[0054], the issued certificate includes a name of an issue requester, an identification number of the issue requester, a serial number of the certificate, a validity period etc);

the OVER file generated by an OVER engine configured to:

store the information associated with the credential of the user (Kang, ¶[0063], the registration module produces additional metadata, appends authentication information associated with the electronic document and stores the electronic document in the database);

and transmit the generated OVER file to the OVER file client device (Kang, ¶[0071], the reading module performs security processing on the reading information package for transmission and transmits the resultant information package to the user);

Kang does not appear to disclose the following limitation that Bhatnagar discloses:

accessing, by an officially verifiable electronic representation (OVER) file verifying device, an OVER file stored on an OVER file client device (Bhatnagar, ¶[0043], a portable communication device scans the barcode of a user device)

transmitting, by the OVER file verifying device, to the OVER engine, a verifying request to verify that the OVER file accessed from the client device authenticates the user (Bhatnagar, ¶[0045], the barcode is decoded to obtain user information and third party server credential. The portable communication device transmits the user information and third party credential to an authentication server. ¶[0046], the authentication server compares the user information and third party server credential to a database. The authentication server transmits the authentication results to the portable communication device and also to the service server);

receiving, by the OVER file verifying device, an authentication message comprising an indication of whether the scan associated with the OVER file on the device of the user corresponds to the information associated with the credential of the user that is stored in the OVER engine (Bhatnagar, ¶[0046], the authentication server compares the user information and third party server credential to a database. The authentication server transmits the authentication results to the portable communication device); and

outputting a status indicator expressing whether the OVER file authenticates the user (Bhatnagar, ¶[0053], the authentication server transmits whether or not the authentication was successful to the portable communication device which can display the result to the user).

Kang in view of Bhatnagar are analogous art because they are from the "same field of endeavor" and are from the same "problem solving area". Namely, they pertain to the field of "authentication and authorization based on user credential". It would have been obvious to a person of ordinary skill in the art at the time the invention was made to modify the invention of Kang in view of Bhatnagar to include the idea of authentication mechanism that relies upon scanning and transmitting user credential to the authorization server or the issuer to make sure the user provided log in information is valid. This overcomes the vulnerabilities of static password.

10. **Regarding claim 2,** Kang in view of Bhatnagar discloses the computer-implemented method of claim 1, wherein the OVER file is a first OVER file, the OVER file storage client device of the user is a first OVER file storage client device of the user, the virtual representation is a first virtual representation, the official representation is a first official representation, the verifying request is a first verifying request, the authentication message is a first authentication message, the indication is a first indication, the status indicator is a first status indicator (Kang, ¶[0044], the electronic document repository system checks the

electronic document information package, produces metadata, appends authentication information such as an electronic signature. ¶[0048], the issuing module serves to control and manage issuing of the electronic document according to user's issue right upon receipt of a request from the user. Also ¶[0054], the issued certificate includes a name of an issue requester, an identification number of the issue requester, a serial number of the certificate, a validity period etc), and the method further comprises:

accessing, by the OVER file verifying device, a second OVER file stored on a second OVER file client device of the user, the second OVER file comprising a second virtual representation of the credential that has been verified by the issuing agency to be a second official representation of the credential that is invalid for use in the first OVER file storage client device for authenticating the user (Bhatnagar, ¶[0043], a portable communication device scans the barcode of a user device);

transmitting, by the OVER file verifying device, to the OVER engine, a second verifying request to verify that the second OVER file scanned at the second client device authenticates the user (Bhatnagar, ¶[0045], the barcode is decoded to obtain user information and third party server credential. The portable communication device transmits the user information and third party credential to an authentication server. ¶[0046], the authentication server compares the user information and third party server credential to a database.

The authentication server transmits the authentication results to the portable communication device and also to the service server);

receiving, by the OVER file verifying device, a second authentication message comprising a second indication of whether the second scan associated with the second OVER file on the device of the user corresponds to the information associated with the credential of the user that is stored in the OVER engine (Bhatnagar, ¶[0046], the authentication server compares the user information and third party server credential to a database. The authentication server transmits the authentication results to the portable communication device); and

outputting a second status indicator expressing whether the second OVER file authenticates the user (Bhatnagar, ¶[0053], the authentication server transmits whether or not the authentication was successful to the portable communication device which can display the result to the user).

11. **Regarding claim 3,** Kang in view of Bhatnagar discloses the computer-implemented method of claim 1, wherein the OVER file further comprises a device identifier for the credential configured to limit the credential to the OVER file storage client device (Bhatnagar, ¶[0041], generating a barcode includes generating multidimensional dynamic barcode based on a preconfigured user identifier. ¶[0050], the user database includes information related to each user or user device such as identification information of the user or device).

12. **Regarding claim 4,** Kang in view of Bhatnagar discloses the computer-implemented method of claim 1, wherein the OVER file further comprises user-specific information (Kang, ¶[0014], the certificate includes a name of an issue requester, a social security number, a serial number of the certificate, an issue request date, a validity period of the certificate, repository identity information etc).

13. **Regarding claim 5,** Kang in view of Bhatnagar discloses the computer-implemented method of claim 4, wherein the user specific-information comprises at least one of: biometric information, location information, a password, or a device identifier (Bhatnagar, ¶[0041], generating a barcode includes generating multidimensional dynamic barcode based on a preconfigured user identifier. ¶[0050], the user database includes information related to each user or user device such as identification information of the user or device).

14. **Regarding claim 6,** Kang in view of Bhatnagar discloses the computer-implemented method of claim 1, wherein the OVER file comprises a portion of the stored credential (Kang, ¶[0063], the registration module produces additional metadata, appends authentication information associated with the electronic document and stores the electronic document in the database).

15. **Regarding claim 7,** Kang in view of Bhatnagar discloses the computer-implemented method of claim 1, wherein the authentication message comprises an indication that the credential is expired (Kang, ¶[0015], management module discards the stored electronic document that has been stored for long time. Also ¶[0051], management module notifies the user when the storage period has expired).

16. **Regarding Claim 8**, Kang in view of Bhatnagar discloses the computer-implemented method of claim 1, further comprising accessing, by the verifying device, from the client device, additional credential information associated with the OVER file indicating whether a secondary condition for authorizing the user has been satisfied (Bhatnagar, ¶[0043], a portable communication device scans the barcode of a user device).

17. **Regarding Claim 9**, Kang discloses an officially verifiable electronic representation (OVER) file verifying device comprising:

    the OVER file comprising:

    a virtual representation of the credential that has been verified by an issuing agency to be an official representation of a credential of a user for proving the user's identity or qualifications, based on information associated with the credential of the user (Kang, ¶[0044], the electronic

document repository system checks the electronic document information package, produces metadata, appends authentication information such as an electronic signature. ¶[0048], the issuing module serves to control and manage issuing of the electronic document according to user's issue right upon receipt of a request from the user. Also ¶[0054], the issued certificate includes a name of an issue requester, an identification number of the issue requester, a serial number of the certificate, a validity period etc);

the OVER file generated by an OVER engine configured to:

store the information associated with the credential of the user (Kang, ¶[0063], the registration module produces additional metadata, appends authentication information associated with the electronic document and stores the electronic document in the database);

and transmit the generated OVER file to the OVER file client device (Kang, ¶[0071], the reading module performs security processing on the reading information package for transmission and transmits the resultant information package to the user);

Kang does not appear to disclose the following limitation that Bhatnagar discloses:

a processor (Bhatnagar, ¶[0048], processor);

a memory unit operatively coupled to the processor (Bhatnagar, ¶[0048], memory), the memory unit configured to store information

associated with a credential of a user and a plurality of instructions, wherein the instructions are configured to cause the processor to perform operation comprising:

accessing an OVER file stored on an OVER file client device (Bhatnagar, ¶[0043], a portable communication device scans the barcode of a user device);

transmitting to the OVER engine a verifying request to verify that the OVER file accessed from the client device authenticates the user (Bhatnagar, ¶[0045], the barcode is decoded to obtain user information and third party server credential. The portable communication device transmits the user information and third party credential to an authentication server. ¶[0046], the authentication server compares the user information and third party server credential to a database. The authentication server transmits the authentication results to the portable communication device and also to the service server);

receiving an authentication message comprising an indication of whether the scan associated with the OVER file on the device of the user corresponds to the information associated with the credential of the user that is stored in the OVER engine (Bhatnagar, ¶[0046], the authentication server compares the user information and third party server credential to a database. The authentication server transmits the authentication results to the portable communication device); and

outputting a status indicator expressing whether the OVER file authenticates the user (Bhatnagar, ¶[0053], the authentication server transmits whether or not the authentication was successful to the portable communication device which can display the result to the user).

Kang in view of Bhatnagar are analogous art because they are from the "same field of endeavor" and are from the same "problem solving area". Namely, they pertain to the field of "authentication and authorization based on user credential". It would have been obvious to a person of ordinary skill in the art at the time the invention was made to modify the invention of Kang in view of Bhatnagar to include the idea of authentication mechanism that relies upon scanning and transmitting user credential to the authorization server or the issuer to make sure the user provided log in information is valid. This overcomes the vulnerabilities of static password.

18. **Regarding claim 10,** Kang in view of Bhatnagar discloses the device of claim 9, wherein the OVER file is a first OVER file, the OVER file storage client device of the user is a first OVER file storage client device of the user, the virtual representation is a first virtual representation, the official representation is a first official representation, the verifying request is a first verifying request, the authentication message is a first authentication message, the indication is a first indication, the status indicator is a first status indicator (Kang, ¶[0044], the

electronic document repository system checks the electronic document information package, produces metadata, appends authentication information such as an electronic signature. ¶[0048], the issuing module serves to control and manage issuing of the electronic document according to user's issue right upon receipt of a request from the user. Also ¶[0054], the issued certificate includes a name of an issue requester, an identification number of the issue requester, a serial number of the certificate, a validity period etc), and the operations further comprise:

accessing a second OVER file stored on a second OVER file client device of the user, the second OVER file comprising a second virtual representation of the credential that has been verified by the issuing agency to be a second official representation of the credential that is invalid for use in the first OVER file storage client device for authenticating the user (Bhatnagar, ¶[0043], a portable communication device scans the barcode of a user device);

transmitting to the OVER engine a second verifying request to verify that the second OVER file scanned at the second client device authenticates the user (Bhatnagar, ¶[0045], the barcode is decoded to obtain user information and third party server credential. The portable communication device transmits the user information and third party credential to an authentication server. ¶[0046], the authentication server compares the user information and third party server credential to a database. The authentication server transmits the

authentication results to the portable communication device and also to the service server);

receiving a second authentication message comprising a second indication of whether the second scan associated with the second OVER file on the device of the user corresponds to the information associated with the credential of the user that is stored in the OVER engine (Bhatnagar, ¶[0046], the authentication server compares the user information and third party server credential to a database. The authentication server transmits the authentication results to the portable communication device); and

outputting a second status indicator expressing whether the second OVER file authenticates the user (Bhatnagar, ¶[0053], the authentication server transmits whether or not the authentication was successful to the portable communication device which can display the result to the user).

19. **Regarding Claim 11,** Kang in view of Bhatnagar discloses the device of claim 9, wherein the OVER file further comprises a device identifier for the credential configured to limit the credential to the OVER file storage client device (Bhatnagar, ¶[0041], generating a barcode includes generating multidimensional dynamic barcode based on a preconfigured user identifier. ¶[0050], the user database includes information related to each user or user device such as identification information of the user or device).

20. **Regarding Claim 12**, Kang in view of Bhatnagar discloses the device of claim 9, wherein the OVER file further comprises user-specific information (Kang, ¶[0014], the certificate includes a name of an issue requester, a social security number, a serial number of the certificate, an issue request date, a validity period of the certificate, repository identity information etc).

21. **Regarding claim 13,** Kang in view of Bhatnagar discloses the device of claim 12, wherein the user specific-information comprises at least one of: biometric information, location information, a password, or a device identifier (Bhatnagar, ¶[0041], generating a barcode includes generating multidimensional dynamic barcode based on a preconfigured user identifier. ¶[0050], the user database includes information related to each user or user device such as identification information of the user or device).

22. **Regarding Claim 14**, Kang in view of Bhatnagar discloses the device of claim 9, wherein the OVER file comprises a portion of the stored credential (Kang, ¶[0063], the registration module produces additional metadata, appends authentication information associated with the

electronic document and stores the electronic document in the database).

23. **Regarding Claim 15**, Kang in view of Bhatnagar discloses the device of claim 9, wherein the authentication message comprises an indication that the credential is expired (Kang, ¶[0015], management module discards the stored electronic document that has been stored for long time. Also ¶[0051], management module notifies the user when the storage period has expired).

24. **Regarding Claim 16**, Kang in view of Bhatnagar discloses the device of claim 9, further comprising accessing, by the verifying device, from the client device, additional credential information associated with the OVER file indicating whether a secondary condition for authorizing the user has been satisfied (Bhatnagar, ¶[0043], a portable communication device scans the barcode of a user device).

25. **Regarding Claim 17**, Kang discloses a non-transitory computer-readable medium comprising instructions that, when executed by a processor, cause the processor to perform operations comprising:

the OVER file comprising:

a virtual representation of the credential that has been verified by an issuing agency to be an official representation of a credential of a user for proving the user's identity or qualifications, based on information associated with the credential of the user (Kang, ¶[0044], the electronic document repository system checks the electronic document information package, produces metadata, appends authentication information such as an electronic signature. ¶[0048], the issuing module serves to control and manage issuing of the electronic document according to user's issue right upon receipt of a request from the user. Also ¶[0054], the issued certificate includes a name of an issue requester, an identification number of the issue requester, a serial number of the certificate, a validity period etc);

the OVER file generated by an OVER engine configured to:

store the information associated with the credential of the user (Kang, ¶[0063], the registration module produces additional metadata, appends authentication information associated with the electronic document and stores the electronic document in the database);

and transmit the generated OVER file to the OVER file client device (Kang, ¶[0071], the reading module performs security processing on the reading information package for transmission and transmits the resultant information package to the user);

Kang does not appear to disclose the following limitation that Bhatnagar discloses:

accessing an OVER file stored on an OVER file client device (Bhatnagar, ¶[0043], a portable communication device scans the barcode of a user device);

transmitting to the OVER engine a verifying request to verify that the OVER file accessed from the client device authenticates the user (Bhatnagar, ¶[0045], the barcode is decoded to obtain user information and third party server credential. The portable communication device transmits the user information and third party credential to an authentication server. ¶[0046], the authentication server compares the user information and third party server credential to a database. The authentication server transmits the authentication results to the portable communication device and also to the service server);

receiving an authentication message comprising an indication of whether the scan associated with the OVER file on the device of the user corresponds to the information associated with the credential of the user that is stored in the OVER engine (Bhatnagar, ¶[0046], the authentication server compares the user information and third party server credential to a database. The authentication server transmits the authentication results to the portable communication device); and

outputting a status indicator expressing whether the OVER file authenticates the user (Bhatnagar, ¶[0053], the authentication server transmits whether or not the authentication was successful to the portable communication device which can display the result to the user).

Kang in view of Bhatnagar are analogous art because they are from the "same field of endeavor" and are from the same "problem solving area". Namely, they pertain to the field of "authentication and authorization based on user credential". It would have been obvious to a person of ordinary skill in the art at the time the invention was made to modify the invention of Kang in view of Bhatnagar to include the idea of authentication mechanism that relies upon scanning and transmitting user credential to the authorization server or the issuer to make sure the user provided log in information is valid. This overcomes the vulnerabilities of static password.

26. **Regarding Claim 18**, Kang in view of Bhatnagar discloses the computer readable medium of claim 17, wherein the OVER file is a first OVER file, the OVER file storage client device of the user is a first OVER file storage client device of the user, the virtual representation is a first virtual representation, the official representation is a first official representation, the verifying request is a first verifying request, the authentication message is a first authentication message, the indication is a first

indication, the status indicator is a first status indicator (Kang, ¶[0044], the electronic document repository system checks the electronic document information package, produces metadata, appends authentication information such as an electronic signature. ¶[0048], the issuing module serves to control and manage issuing of the electronic document according to user's issue right upon receipt of a request from the user. Also ¶[0054], the issued certificate includes a name of an issue requester, an identification number of the issue requester, a serial number of the certificate, a validity period etc), and the operations further comprise:

accessing a second OVER file stored on a second OVER file client device of the user, the second OVER file comprising a second virtual representation of the credential that has been verified by the issuing agency to be a second official representation of the credential that is invalid for use in the first OVER file storage client device for authenticating the user (Bhatnagar, ¶[0043], a portable communication device scans the barcode of a user device);

transmitting to the OVER engine a second verifying request to verify that the second OVER file scanned at the second client device authenticates the user (Bhatnagar, ¶[0045], the barcode is decoded to obtain user information and third party server credential. The portable communication device transmits the user information and third party

credential to an authentication server. ¶[0046], the authentication server compares the user information and third party server credential to a database. The authentication server transmits the authentication results to the portable communication device and also to the service server);

receiving a second authentication message comprising a second indication of whether the second scan associated with the second OVER file on the device of the user corresponds to the information associated with the credential of the user that is stored in the OVER engine (Bhatnagar, ¶[0046], the authentication server compares the user information and third party server credential to a database. The authentication server transmits the authentication results to the portable communication device); and

outputting a second status indicator expressing whether the second OVER file authenticates the user (Bhatnagar, ¶[0053], the authentication server transmits whether or not the authentication was successful to the portable communication device which can display the result to the user).

27. **Regarding Claim 19**, Kang in view of Bhatnagar discloses the computer readable medium of claim 17, wherein the OVER file further comprises a device identifier for the credential configured to limit the credential to the OVER file storage client device (Bhatnagar, ¶[0041], generating a barcode includes generating multidimensional dynamic barcode based

on a preconfigured user identifier. ¶[0050], the user database includes information related to each user or user device such as identification information of the user or device).

28. **Regarding Claim 20**, Kang in view of Bhatnagar discloses the computer readable medium of claim 17, wherein the OVER file further comprises user-specific information comprising at least one of: biometric information, location information, a password, or a device identifier (Bhatnagar, ¶[0041], generating a barcode includes generating multidimensional dynamic barcode based on a preconfigured user identifier. ¶[0050], the user database includes information related to each user or user device such as identification information of the user or device).

Conclusion

29. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure (see PTO-Form 892).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to WASIKA NIPA whose telephone number is (571)272-8923. The examiner can normally be reached on M-F (7:30 - 5:00). If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, JEFFRY PWU can be reached on

571-272-6798. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Examiner interviews are available via telephone, in-person, and video conferencing using a USPTO supplied web-based collaboration tool. To schedule an interview, Applicant is encouraged to use the USPTO Automated Interview Request (AIR) at http://www.uspto.gov/interviewpractice.

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/WASIKA NIPA/

Examiner, Art Unit 2433

Notice of References Cited	Application/Control No. 14/982,981	Applicant(s)/Patent Under Reexamination SARKISSIAN, SHAUNT M.	
	Examiner WASIKA NIPA	Art Unit 2433	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-2009/0307756 A1	12-2009	Kang; Hyun Ku	G06F21/6218	726/4
*	B	US-2012/0240204 A1	09-2012	Bhatnagar; Piyush	G06F21/35	726/5
	C	US-				
	D	US-				
	E	US-				
	F	US-				
	G	US-				
	H	US-				
	I	US-				
	J	US-				
	K	US-				
	L	US-				
	M	US-				

FOREIGN PATENT DOCUMENTS

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

NON-PATENT DOCUMENTS

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

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet 1 of 1

Complete if Known	
Application Number	14/982,981
Filing Date	December 29, 2015
First Named Inventor	Shaunt M. Sarkissian
Art Unit	2433
Examiner Name	NIPA, WASIKA
Attorney Docket Number	1402374.00032

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. 1	Document Number Number-Kind Code[2] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	1	2009/307756 A1	12-10-2009	Hyun Ku Kang	
	2	2012/0173311 A1	06-14-2012	Eric L. Paris, et al.	
	3	2012/151206 A1	06-14-2012	Eric L. Paris, et al.	
	4	2012/0240204 A1	09-20-2016	Bhatnagar, et al.	

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. 1	Foreign Patent Document Country Code[3] Number[4] Kind Code[5] (*if known*)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T[6]
	5					

Examiner Initials*	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T
	6	Supplemental EP Search Report for 13864820.9, dated May 31, 2016, 9 pages	
	7		

Examiner Signature	/WASIKA NIPA/	Date Considered	04/05/2017

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ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /W.N/

Index of Claims	Application/Control No.	Applicant(s)/Patent Under Reexamination
	14982981	SARKISSIAN, SHAUNT M.
	Examiner	**Art Unit**
	WASIKA NIPA	2433

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

☐ Claims renumbered in the same order as presented by applicant ☐ CPA ☐ T.D. ☐ R.1.47

CLAIM		DATE								
Final	Original	03/31/2017								
	1	✓								
	2	✓								
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	18	✓								
	19	✓								
	20	✓								

EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L2	2058	(unencod$3 unscrambl$3 decipher$3 read$3) NEAR3 (code credential identifier id) WITH (authenticat$3 authori$6 verif$3 verification validity).clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/04/13 10:39
L10	101299	(H04L63/083 or H04L63/0861 or G06Q20/3821 or G06Q20/3274 or H04L63/08 or G06Q30/0251 or H04L2463/102).cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/04/13 10:59
L11	5019	(generat$3 creat$3 produc$3 mak$3 build$3 construct$3) WITH (document file code identifier id) WITH (user client subscriber customer requester requesting NEAR2 (party entity)) WITH (service resource content information file document) WITH (identity identifier credential id).clm.	USPAT	OR	OFF	2017/04/13 11:00
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L14	462	L11 AND L10	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/04/13 11:02
S2	22	(("SARKISSIAN") near3 ("Shaunt")).INV.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/03/31 13:57

S3	2	S2 AND over.clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/03/31 14:00
S5	3	S2 AND (authenticat$3 verif$6) AND credential.clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/03/31 14:02
S6	6	cortex.inv.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/03/31 14:23
S7	1	kr WITH "20060093594".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/03/31 14:24
S8	9	officially WITH verifiable WITH electronic SAME credential	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/03/31 14:25
S9	109070	(verifying verification authenticat$3) WITH (credential code certificate) SAME (request$3 receiv$3 stor$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/03/31 14:29
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S11	7	"2012151206".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/04/05 19:49
S12	41	eric NEAR3 paris.inv.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO;	OR	OFF	2017/04/05 19:50

			DERWENT; IBM_TDB			
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S14	9207	authenticat$3 WITH (log$in) AND (document certificate file) WITH (storage repository)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/04/05 20:27
S15	4462	authenticat$3 WITH (log$in access$3) SAME (document certificate file) WITH (storage repository)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/04/05 20:29
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S17	100960	(H04L63/083 or H04L63/0861 or G06Q20/3821 or G06Q20/3274 or H04L63/08 or G06Q30/0251 or H04L2463/102).cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/04/05 20:31
S18	455	S16 AND S17	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/04/05 20:31
S19	679611	("705" "709" "713" "726" "380").clas.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/04/05 20:34
S20	1641	S16 AND S19	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/04/05 20:34
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S23	292	(id identity identifier credential) WITH (generat$3 issu$3) WITH agency SAME request$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/04/11 18:45
S24	1286	(permit$4 permission grant$3) WITH access AND (valid invalid) NEAR4 credential	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/04/11 18:47
S25	708	(stor$3 verif$3) WITH (credential identifier id) SAME (mobile smart iphone cell$5 laptop tablet) SAME scan$3 SAME (authenticat$3 authori$6)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/04/11 18:53
S26	45467	electronic ADJ document	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/04/11 18:57
S27	16	S25 AND S26	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/04/11 18:57
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S32	73	S31 AND (verif$6 authenticat$3 authori$6)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/04/12 09:32
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S34	35275	(generat$3 creat$3 produc$3 mak$3 build$3 construct$3) WITH (document file code identifier id) WITH (user client subscriber customer requester requesting NEAR2 (party entity)) WITH (service resource content information file document) WITH (identity identifier credential id) SAME (server service NEAR3 provider supplier database data NEAR2 warehouse)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/04/12 10:49
S35	18119	(unencod$3 unscrambl$3 decipher$3 read$3) NEAR3 (code credential identifier id) WITH (authenticat$3 authori$6 verif$3 verification validity)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/04/12 10:53
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			DERWENT; IBM_TDB			
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S38	18	"9201704".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2017/04/12 14:05

EAST Search History (Interference)

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4/13/2017 11:03:08 AM
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Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	14982981	SARKISSIAN, SHAUNT M.
	Examiner	**Art Unit**
	WASIKA NIPA	2433

CPC- SEARCHED		
Symbol	**Date**	**Examiner**
H04L63/08	4/13/2017	WN
G06Q20/3274	4/13/2017	WN
G06Q30/0251	4/13/2017	WN

CPC COMBINATION SETS - SEARCHED		
Symbol	**Date**	**Examiner**

US CLASSIFICATION SEARCHED			
Class	**Subclass**	**Date**	**Examiner**
	None alone		

SEARCH NOTES		
Search Notes	**Date**	**Examiner**
Google Scholar	4/13/2017	WN
Google Patent Search	4/13/2017	WN
East classification 705, 713, 726 and 380 with text	4/13/2017	WN
Inventor Search	4/13/2017	WN
Assignee Search	4/13/2017	WN
CPC classification search with limited text	4/13/2017	WN
PLUS search	4/12/2017	WN

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

/WASIKA NIPA/ Examiner.Art Unit 2433	

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet 1 of 1

Complete if Known	
Application Number	14/982,981
Filing Date	December 29, 2015
First Named Inventor	Shaunt M. Sarkissian
Art Unit	2433
Examiner Name	NIPA, WASIKA
Attorney Docket Number	1402374.00032

U.S.PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	Document Number Number-Kind Code[2] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	1	2007/0208665 A1	09-06-2007	Ohara	
	2	2010/0250389 A1	09-30-2010	Augustin et al.	
	3	7,290,146 B2	10-30-2007	Ekers et al.	
	4	8,132,237 B2	03-06-2012	Kang	
	5	9,251,531 B2	02-02-2016	Sarkissian	

FOREIGN PATENT DOCUMENTS

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	6	KR 10-2011-0126269 A (English Abstract)	11-23-2011	Kim et al.		
	7	KR 10-2011-0130002 A (English Abstract)	12-05-2011	Oh		
	8	KR 10-1091410 B1	12-07-2011	Ok		
	9	WO 2008/018744 A1	02-14-2008	Kang		
	10	WO 2014/100628	06-24-2014	Sarkissian		

Examiner Signature	/WASIKA NIPA/	Date Considered	03/31/2017

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Examiner Initials*	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T
	11	International Search Report for PCT/US2013/0077010 dated April 17, 2014 (3 pages).	
	12	Written Opinion for PCT/US2013/0077010 dated April 17, 2014 (7 pages).	

Examiner Signature	/WASIKA NIPA/	Date Considered	04/05/2017

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BIB DATA SHEET

CONFIRMATION NO. 6268

SERIAL NUMBER	FILING or 371(c) DATE	CLASS	GROUP ART UNIT	ATTORNEY DOCKET NO.
14/982,981	12/29/2015 RULE	726	2433	1402374.00032

APPLICANTS

INVENTORS

Shaunt M. Sarkissian, Cambridge, MA;

**** CONTINUING DATA ***************************

This application is a CON of 13/794,878 03/12/2013 PAT 9251531
which claims benefit of 61/740,731 12/21/2012

**** FOREIGN APPLICATIONS ****************************

**** IF REQUIRED, FOREIGN FILING LICENSE GRANTED **** ** SMALL ENTITY **
02/16/2016

Foreign Priority claimed	☐ Yes ☑ No	☐ Met after Allowance	STATE OR COUNTRY	SHEETS DRAWINGS	TOTAL CLAIMS	INDEPENDENT CLAIMS
35 USC 119(a-d) conditions met	☐ Yes ☑ No		MA	12	20	3
Verified and Acknowledged	/WASIKA NIPA/ Examiner's Signature	Initials				

ADDRESS

K&L GATES LLP-Pittsburgh
210 SIXTH AVENUE
PITTSBURGH, PA 15222-2613
UNITED STATES

TITLE

FILE FORMAT AND PLATFORM FOR STORAGE AND VERIFICATION OF CREDENTIALS

FILING FEE RECEIVED		
730	FEES: Authority has been given in Paper No._____ to charge/credit DEPOSIT ACCOUNT No._____ for following:	☐ All Fees ☐ 1.16 Fees (Filing) ☐ 1.17 Fees (Processing Ext. of time) ☐ 1.18 Fees (Issue) ☐ Other _____ ☐ Credit

PLUS Search Results for S/N 14982981, Searched Wed Apr 12 08:32:25 EDT 2017

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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20140013418 85
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PTO/SB/08A (07-09)
Approved for use through 07/31/2012. OMB 0651-0031
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U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. 1	Document Number Number-Kind Code[2] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	1	2009/307756 A1	12-10-2009	Hyun Ku Kang	
	2	2012/0173311 A1	06-14-2012	Eric L. Paris, et al.	
	3	2012/151206 A1	06-14-2012	Eric L. Paris, et al.	
	4	2012/0240204 A1	09-20-2016	Bhatnagar, et al.	

FOREIGN PATENT DOCUMENTS

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	5					

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	6	Supplemental EP Search Report for 13864820.9, dated May 31, 2016, 9 pages	
	7		

Examiner Signature		Date Considered	

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Electronic Acknowledgement Receipt

EFS ID:	26274633
Application Number:	14982981
International Application Number:	
Confirmation Number:	6268
Title of Invention:	FILE FORMAT AND PLATFORM FOR STORAGE AND VERIFICATION OF CREDENTIALS
First Named Inventor/Applicant Name:	Shaunt M. Sarkissian
Customer Number:	26285
Filer:	Jordan Anthony Kwan/Michelle Begay
Filer Authorized By:	Jordan Anthony Kwan
Attorney Docket Number:	1402374.00032
Receipt Date:	06-JUL-2016
Filing Date:	29-DEC-2015
Time Stamp:	18:16:36
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Transmittal Letter	1402374_00032_IDS.pdf	17208 a35d859b86d6a95c95566ff2540c2c6d0e77be7d	no	2

Warnings:

Information:					
2	Information Disclosure Statement (IDS) Form (SB08)	1402374_00032_1449.pdf	14285 60e88b9530469e4dbfac8a6fc120ea149f779d16	no	1
Warnings:					
Information:					
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3	Foreign Reference	EP_Search_Report_053116.pdf	1212280 185791acc928aae1b0b0296a82def738999b398d	no	9
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If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

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

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

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant:	Shaunt M. Sarkissian	)	**Examiner:**	Nipa, Wasika
		)		
Serial No:	14/982,981	)	**Art Unit:**	2433
		)		
Filing Date:	December 29, 2015	)		
		)		
Confirmation No:	6268	)		

Title: FILE FORMAT AND PLATFORM FOR STORAGE AND VERIFICATION OF CREDENTIALS

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

INFORMATION DISCLOSURE STATEMENT

Dear Examiner:

Enclosed is a copy of Information Disclosure Citation Form PT0-1449 or PTO/SB/08 together with copies of the documents cited on that form, except for copies not required to be submitted (e.g., copies of U.S. patents and U.S. published patent applications need not be enclosed). It is respectfully requested that the cited documents be considered and that the enclosed copy of Information Disclosure Citation Form PT0-1449 or PTO/SB/08 be initialed by the Examiner to indicate such consideration and a copy thereof returned to applicant(s).

Pursuant to 37 C.F.R. § 1.97, the submission of this Information Disclosure Statement is not to be construed as a representation that a search has been made and is not to be construed as an admission that the information cited in this statement is material to patentability.

Pursuant to 37 C.F.R. § 1.97, this Information Disclosure Statement is being submitted under one of the following (as indicated by an "X" to the left of the appropriate paragraph):

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_____ A statement pursuant to 37 C.F.R. §1.97(e) or

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If there are any additional charges, please charge Deposit Account No. 02-1818.

Respectfully submitted,

K&L Gates LLP

Dated: July 6, 2016

/Jordan A. Kwan/_____
Jordan A. Kwan
Reg. No. 67,954

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저온 다결정 박막의 제조방법

Manufacturing method for thin film of poly-crystalline material

(51) Int. CL	H01L 21/20(2006.01) H01L 31/18(2006.01) H01L 29/786(2006.01) H01L 21/324 (2006.01)
(52) CPC	H01L 21/02672(2013.01) H01L 27/1277 (2013.01) H01L 31/18(2013.01)
(21) Application No.(Date)	1020110126269 (2011.11.29)
(71) Applicant	NOKORD CO.,LTD
(11) Registration No.(Date)	
(65) Unex. Pub. No.(Date)	1020130060002 (2013.06.07)
(11) Publication No.(Date)	
(86) Int'l Application No.(Date)	
(87) Int'l Unex. Pub. No.(Date)	
(30) Priority info. (Country / No. / Date)	
Legal Status	Rejected
Examination Status	Decision of Refusal (General)
Trial Info	
Kind/Right of Org. Application	New Application /
Right of Org. Application No.(Date)	
Related Application No.	
Request for an examination(Date)	Y(2011.11.29)
Number of examination claims	6

Zoom

KOA Korea Patent Abstract

PURPOSE: A method for manufacturing a low temperature polycrystalline thin film is provided to improve the quantity of crystallized silicon.

CONSTITUTION: An insulating layer is formed on a substrate(S1). A first metal layer is formed on the insulating layer (S2). The first metal layer is heat-treated to form a first metal oxide layer(S3). A first amorphous layer is formed on the first metal oxide layer(S4). A first seed layer is formed by using the compound of the first amorphous layer and the first metal layer(S5). A second metal layer is formed on the first seed layer(S6). The second metal layer is heat-treated to form a second metal oxide layer(S7). A second amorphous layer is formed on the second metal oxide layer(S8). A second seed layer is formed by using the compound of the second amorphous layer and the second metal layer(S9). A third amorphous layer is formed on the second seed layer(S10). The third amorphous layer is heat-treated to form a crystalline thin film(S11).
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(19) 대한민국특허청(KR)
(12) 공개특허공보(A)

(11) 공개번호 10-2013-0060002
(43) 공개일자 2013년06월07일

(51) 국제특허분류(Int. Cl.)
H01L 21/20 (2006.01) *H01L 21/324* (2006.01)
H01L 31/18 (2006.01) *H01L 29/786* (2006.01)
(21) 출원번호 10-2011-0126269
(22) 출원일자 2011년11월29일
심사청구일자 2011년11월29일

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(74) 대리인
리앤목특허법인

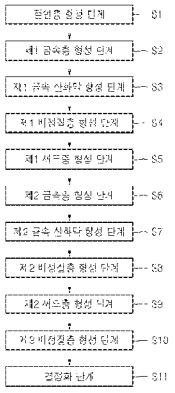
전체 청구항 수 : 총 6 항

(54) 발명의 명칭 **저온 다결정 박막의 제조방법**

(57) 요 약

본 발명에 따른 저온 다결정 박막의 제조방법은, 기판 상에 절연층을 형성하는 절연층 형성단계; 상기 절연층 위에 제1금속층을 형성하는 제1금속층 형성단계; 상기 제1금속층을 열처리하여 제1금속산화막을 형성하거나 상기 제1금속층 위에 금속산화막을 증착하여 제1금속산화막을 형성하는 제1금속산화막 형성단계; 상기 제1금속산화막 위에 비정질층을 적층하여 제1비정질층을 형성하는 제1비정질층 형성단계; 상기 제1금속층과 상기 제1비정질층이 화합물을 형성하여 제1씨드층을 형성하도록 열처리 하는 제1씨드층 형성단계; 상기 제1씨드층 위에 제2금속층을 형성하는 제2금속층 형성단계; 상기 제2금속층을 열처리하여 제2금속산화막을 형성하거나 상기 제2금속층 위에 금속산화막을 증착하여 제2금속산화막을 형성하는 제2금속산화막 형성단계; 상기 제2금속산화막 위에 비정질층을 적층하여 제2비정질층을 형성하는 제2비정질층 형성단계; 상기 제2금속층과 상기 제2비정질층이 화합물을 형성하여 제2씨드층이 형성되도록 하는 열처리하는 제2씨드층 형성단계; 상기 제2씨드층 위에 비정질층을 적층하여 제3비정질층을 형성하는 제3비정질층 형성단계; 및 상기 제1씨드층 및 상기 제2씨드층의 금속 입자를 촉매로 하여 상기 제3비정질층에서 결정질 박막이 생성되도록 열처리하는 결정화 단계;를 포함한 것을 특징으로 한다.

대 표 도 - 도2



특허청구의 범위

청구항 1

기판 상에 절연층을 형성하는 절연층 형성단계;

상기 절연층 위에 제1금속층을 형성하는 제1금속층 형성단계;

상기 제1금속층을 열처리하여 제1금속산화막을 형성하거나 상기 제1금속층 위에 금속산화막을 증착하여 제1금속산화막을 형성하는 제1금속산화막 형성단계;

상기 제1금속산화막 위에 비정질층을 적층하여 제1비정질층을 형성하는 제1비정질층 형성단계;

상기 제1금속층과 상기 제1비정질층이 화합물을 형성하여 제1씨드층을 형성하도록 열처리 하는 제1씨드층 형성단계;

상기 제1씨드층 위에 제2금속층을 형성하는 제2금속층 형성단계;

상기 제2금속층을 열처리하여 제2금속산화막을 형성하거나 상기 제2금속층 위에 금속산화막을 증착하여 제2금속산화막을 형성하는 제2금속산화막 형성단계;

상기 제2금속산화막 위에 비정질층을 적층하여 제2비정질층을 형성하는 제2비정질층 형성단계;

상기 제2금속층과 상기 제2비정질층이 화합물을 형성하여 제2씨드층이 형성되도록 하는 열처리하는 제2씨드층 형성단계;

상기 제2씨드층 위에 비정질층을 적층하여 제3비정질층을 형성하는 제3비정질층 형성단계; 및

상기 제1씨드층 및 상기 제2씨드층의 금속 입자를 촉매로 하여 상기 제3비정질층에서 결정질 박막이 생성되도록 열처리하는 결정화 단계;를 포함한 것을 특징으로 하는 저온 다결정 박막의 제조방법.

청구항 2

제1항에 있어서,

상기 제1금속산화막 형성단계, 상기 제2금속산화막 형성단계, 상기 제1씨드층 형성단계, 상기 제2씨드층 형성단계에서의 열처리 온도는 50℃ 내지 1000℃이며,

상기 결정화 단계에서의 열처리 온도는 200℃ 내지 1000℃인 것을 특징으로 하는 저온 다결정 박막의 제조방법.

청구항 3

제1항에 있어서,

상기 제1금속층과 상기 제2금속층의 두께의 합은 10Å 내지 2000Å이며,

상기 제1금속산화막 및 상기 제2금속산화막의 두께는 각각 1Å 내지 300Å이며,

상기 제1금속층과 상기 제1비정질층의 두께의 비율은 1:0.5 내지 1:20이며,

상기 제2금속층과 상기 제2비정질층의 두께의 비율은 1:0.5 내지 1:20이며,

상기 제1비정질층 및 상기 제2비정질층의 두께는 각각 5Å 내지 3000Å 인 것을 특징으로 하는 저온 다결정 방법의 제조방법.

청구항 4

제1항에 있어서,

상기 제1금속층 또는 상기 제2금속을 형성하는 금속은 니켈(Ni), 구리(Cu), 팔라듐(Pd), 코발트(Co), 알루미늄(Al), 은(Ag), 금(Au), 백금(Pt), 이리듐(Ir), 망간(Mn), 철(Fe), 크롬(Cr), 티타늄(Ti) 중 어느 하나인 것을 특징으로 하는 다결정 박막의 제조방법.

청구항 5

제1항에 있어서,

상기 제1비정질층, 상기 제2비정질층, 상기 제3비정질층을 형성하는 재료는 실리콘, 실리콘게르마늄, 탄화실리콘, 게르마늄 중 어느 하나인 것을 특징으로 하는 저온 다결정 박막의 제조방법.

청구항 6

제1항에 있어서,

상기 제1비정질층 형성단계 후에 상기 제1금속층, 상기 제1금속산화막, 상기 제1비정질층 중 적어도 일부를 식각 방법으로 제거하거나,

상기 제2비정질층 형성단계 후에 상기 제2금속층, 상기 제2금속산화막, 상기 제2비정질층 중 적어도 일부를 식각 방법으로 제거하는 패터닝 단계를 포함한 것을 특징으로 하는 저온 다결정 박막의 제조방법.

명 세 서

기 술 분 야

[0001] 본 발명은 태양전지 등에 사용되는 다결정 박막을 제조하는 방법에 관한 것으로서, 더 구체적으로는 비정질 재료의 박막을 금속유도결정화법에 의해 효과적으로 다결정 박막을 제조하는 방법에 관한 것이다.

배 경 기 술

[0002] 일반적으로, 다결정 실리콘(poly-Si)의 제조에서 일어나는 대부분의 문제점은 고온에서 취약한 유리 기판의 사용으로 인해 공정 온도를 비정질 실리콘(a-Si) 박막이 결정화되는 온도로 충분히 올릴 수 없는 것이다.

[0003] 다결정 실리콘(poly-Si)의 제조에서 고온의 열처리가 필요한 공정은 비정질 실리콘(a-Si) 박막을 결정질 실리콘 박막으로 바꾸는 결정화 열처리(Crystallization)와 도핑(Doping) 후 전기적으로 활성화시키는 활성화 열처리(Dopant Activation) 등이다.

[0004] 현재, 유리 기판이 허용하는 저온의 온도에서, 빠른 시간 내에 다결정 실리콘 박막을 형성하는 다양한 공정(LTPS:Low Temperature poly-Si)이 제안되고 있다. 다결정 실리콘 박막을 형성하는 대표적인 방법은 고상결정화법(SPC, Solid Phase Crystallization), 엑시머 레이저 순간 조사법(ELA, Excimer Laser Annealing), 금속유도결정화법(MIC, Metal Induced Crystallization) 등이다. 금속유도 결정화법에 대한 일례가 공개특허 제2009-0069808호에 개시되어 있다.

[0005] SPC(Solid Phase Crystallization)는, 비정질 실리콘(a-Si)으로부터 다결정 실리콘(poly-Si) 박막을 얻는 가장 직접적이고도 오래 사용된 방법이다. SPC는 비정질 실리콘 박막을 600℃ 이상의 온도에서 수십 시간 동안 열처리하여 결정립의 크기가 수 마이크로 내외인 다결정 실리콘 박막을 얻는 방법이다. 이 방법으로 얻어진 다결정 실리콘 박막은 결정립 내의 결함밀도가 높고, 열처리 온도가 높기 때문에 유리 기판을 사용하기 어려우며, 장시간의 열처리로 인해 공정시간이 긴 단점이 있다.

[0006] ELA(Excimer Laser Annealing)는 비정질 실리콘 박막에 나노초(nano-second) 동안 엑시머 레이저를 순간 조사하여, 유리 기판의 손상 없이 비정질 실리콘 박막을 용융 및 재결정시키는 방법이다.

[0007] 그러나, ELA는 양산 공정에서 상당한 문제점이 있는 것으로 알려져 있다. ELA는 레이저 조사량에 따른 다결정 실리콘(poly-Si) 박막의 그레인 구조가 매우 불균일하다. ELA는 공정 범위가 좁아 균일한 결정질 실리콘 박막의 제조가 어려운 문제점이 있다. 또한, 다결정 실리콘 박막의 표면이 거칠어 소자의 특성에 나쁜 영향을 주게 된다. 이러한 문제점은 박막트랜지스터(Thin Film Transistor, TFT)의 균일도가 중요한 유기발광다이오드(Organic Light Emitting Diode, OLED)의 응용에 있어서는 더욱 심각한 것이다.

[0008] 이러한 문제점을 극복하기 위해 제시된 방법이 금속유도결정화법(MIC, Metal Induced Crystallization)이다. MIC는 비정질 실리콘에 금속 촉매를 스퍼터링이나 스핀 코팅의 방법으로 도포한 후에 낮은 온도에서 열처리하여 실리콘의 결정화를 유도하는 방법이다. 금속 촉매로 니켈(Ni), 구리(Cu), 알루미늄(Al), 팔라듐(Pd) 등의 다양한 금속이 사용 가능하다. 일반적으로 MIC에는 반응 제어가 쉽고 큰 그레인이 얻어지는 니켈(Ni)이 금속 촉매로 사용되고 있다. MIC는 700℃ 미만의 낮은 온도에서 결정화가 가능하나 실제 양산공정에 적용하기에는 상당한 문

제점이 있다. 이 문제점은 TFT내 활성화 영역에 확산되는 상당한 양의 금속은 전형적인 금속 오염을 일으켜 TFT 특성 중 하나인 누설전류 증가시키게 된다.

[0009] 저온 다결정 실리콘(Low temperature poly-Si, LTPS)의 개발은 액정디스플레이장치에 적용할 목적으로 수행되었으나, 최근 능동형 유기발광다이오드(AMOLED : Active Matrix Organic Light Emitting Diode)와 박막형 다결정 실리콘 태양전지의 등장과 더불어 개발의 필요성이 더 높아지고 있다.

[0010] 저렴하고 높은 생산성을 갖는 다결정 실리콘(poly-Si)의 제조방법은, 향후 시장에서 능동형 유기발광다이오드(AMOLED)가 많은 디스플레이 제품군에서 비정질 실리콘 박막트랜지스터 액정표시장치(a-Si TFT LCD)와 경쟁할 것이라는 점에서 중요하다. 다결정 실리콘의 제조방법은, 능동형 유기발광다이오드(AMOLED)가 태양전지(solar Cell)에서 결정질 웨이퍼(Wafer) 형태와 경쟁할 것이라는 점에서도 중요하다. 따라서, 제품의 생산 원가 및 시장 경쟁력은, 생산 기술이 안정화 단계에 접어든 비정질 실리콘 박막트랜지스터 액정표시장치(a-Si TFT LCD) 및 결정질 웨이퍼 형태의 태양전지와 비교하여 얼마나 싼 가격에 안정적으로 다결정 실리콘을 제조할 수 있느냐에 달려있다.

[0011] 도 1에는 금속유도결정화법에 의해 비정질 실리콘으로부터 다결정 실리콘 박막을 얻는 제조공정이 도식적으로 도시되어 있다. 도 1을 참조하면 종래의 공정에서는 유리와 같은 기판(1)에 실리콘 산화물(SiO_2)로 이루어진 완충층(2)을 형성하고 그 완충층(2)에 비정질 실리콘층(3)을 플라즈마 화학증착법(PECVD, Plasma Enhanced Chemical Vapor Deposition)으로 형성한 다음, 비정질 실리콘층(3)에 니켈(Ni)과 같은 금속을 스퍼터링(sputtering)하여 도포한 후에 약 700℃ 정도로 RTA(Rapid Thermal Annealing) 방식으로 열처리하여 비정질 실리콘층(3)으로부터 결정질 실리콘(4)이 형성되도록 한다. 그런데, 종래의 방식에 의하면 비정질 실리콘층(3)의 상부에 도포되는 금속의 양을 정밀하게 제어하기 어렵기 때문에 과잉으로 도포된 금속을 제거하여 주어야 하는 등의 불편한 문제점이 있다. 이러한 공정은 제조비용을 상승시킬 뿐 아니라 결정화된 실리콘의 품질에 나쁜 영향을 미친다.

발명의 내용

해결하려는 과제

[0012] 본 발명의 목적은 상기와 같은 문제점을 해소하기 위해 안출된 것으로서, 금속유도결정화법을 사용하여 다결정 박막을 제조하는 방법에 있어서, 낮은 온도에서 그레인 입자가 큰 결정화가 가능하게 함으로써 생산성을 향상시켜 효율적인 다결정 박막의 제조방법을 제공함에 있다.

과제의 해결 수단

[0013] 상기 목적을 달성하기 위해 본 발명의 일 실시 예에 따른 저온 다결정 박막의 제조방법은, 기판 상에 절연층을 형성하는 절연층 형성단계;

[0014] 상기 절연층 위에 제1금속층을 형성하는 제1금속층 형성단계;

[0015] 상기 제1금속층을 열처리하여 제1금속산화막을 형성하거나 상기 제1금속층 위에 금속산화막을 증착하여 제1금속산화막을 형성하는 제1금속산화막 형성단계;

[0016] 상기 제1금속산화막 위에 비정질층을 적층하여 제1비정질층을 형성하는 제1비정질층 형성단계;

[0017] 상기 제1금속층과 상기 제1비정질층이 화합물을 형성하여 제1씨드층을 형성하도록 열처리 하는 제1씨드층 형성단계;

[0018] 상기 제1씨드층 위에 제2금속층을 형성하는 제2금속층 형성단계;

[0019] 상기 제2금속층을 열처리하여 제2금속산화막을 형성하거나 상기 제2금속층 위에 금속산화막을 증착하여 제2금속산화막을 형성하는 제2금속산화막 형성단계;

[0020] 상기 제2금속산화막 위에 비정질층을 적층하여 제2비정질층을 형성하는 제2비정질층 형성단계;

[0021] 상기 제2금속층과 상기 제2비정실층이 화합물을 형성하여 제2씨드층이 형성되도록 하는 열처리하는 제2씨드층 형성단계;

[0022] 상기 제2씨드층 위에 비정질층을 적층하여 제3비정질층을 형성하는 제3비정질층 형성단계; 및