



APPLICATION NO.	ISSUE DATE	PATENT NO.	ATTORNEY DOCKET NO.	CONFIRMATION NO.
16/893,023	05/10/2022	11329973	0246162.00056	1826

26285 7590 04/20/2022

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 Patents Stakeholder Experience (OPSE), Stakeholder Support Division (SSD) at (571)-272-4200.

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

Shaunt M. Sarkissian, Reno, NV;

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

CORTEX MCP INC., Reno, NV

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.

Document Description: Issue Fee Payment (PTO-85B)

Issue Fee Transmittal Form

Application Number	Filing Date	First Named Inventor	Atty. Docket No.	Confirmation No.
16893023	04-Jun-2020	Shaunt M. Sarkissian	0246162.00056	1826

TITLE OF INVENTION :

FILE FORMAT AND PLATFORM FOR STORAGE AND VERIFICATION OF CREDENTIALS

Entity Status	Application Type	Art Unit	Class - Subclass	EXAMINER
Small	Utility under 35 USC 111(a)	2433	007000	
Issue Fee Due	Publication Due	Total Fee(s) Due	Date Due	Prev. Paid Fee
\$600	\$0	\$600	02-Jun-2022	\$0

1.Change of Correspondence Address and/or Indication Of Fee Address (37 CFR 1.33 & 1.363)

Current Correspondence Address:	Current Indicated Fee Address :
26285 K&L GATES LLP-Pittsburgh 210 SIXTH AVENUE PITTSBURGH PA 15222-2613 UNITED STATES 412.355.6500 USpatentmail@klgates.com	
☐ Change of correspondence address requested, system generated AIA/122-EFS form attached	☐ Fee Address indication requested, system generated SB/47-EFS form attached

2.Entity Status**Change in Entity Status**

Applicant certifying micro entity status; system generated Micro Entity certification form attached. See 37 CFR 1.29.

Note: Absent a valid certification of micro entity status, issue fee payment in the micro entity amount will not be accepted at the risk of application abandonment. If this box is checked, you will be prompted to choose a micro entity status on the gross income basis (37 CFR 1.29(a)) or the institution of higher education basis (37 CFR 1.29(d)), and make the applicable certification online.



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.



Document Description: Issue Fee Payment (PTO-85B)

3.The Following Fee(s) Are Submitted:

☒ Issue Fee

☐ I authorize USPTO to apply my previously paid issue fee to the current fees due

☐ Publication Fee

☐ The Director is hereby authorized to apply my previously paid issue fee to the current fee due and to charge deficient fees to Deposit Account Number _____

☐ Advance Order - # of copies _____

☒ If in **addition** to the payment of the issue fee amount submitted with this form, there are any discrepancies in any amount(s) due, the Director is authorized to charge any deficiency, or credit any overpayment, to Deposit Account Number 02-1818.
The **issue fee must be submitted** with this form. **If payment of the issue fee does not accompany this form, checking this box and providing a deposit account number will NOT be effective to satisfy full payment of the fee(s) due.**

4.Firm and/or Attorney Names To Be Printed

NOTE: If no name is listed, no name will be printed
For printing on the patent front page, list to be displayed as entered

1. Brian P. Bozzo

2.

3.

5.Assignee Name(s) and Residence Data To Be Printed

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.

Name	City	State	Country	Category
CORTEX MCP INC.	Reno	NEVADA	UNITED STATES	corporation

6.Signature

I certify, in accordance with 37 CFR 1.4(d)(4) that I am an attorney or agent registered to practice before the Patent and Trademark Office who has filed and has been granted power of attorney in this application. I also certify that this Fee(s) Transmittal form is being transmitted to the USPTO via EFS-WEB on the date indicated below.

Signature	/Brian P. Bozzo/	Date	04-13-2022
Name	Brian P. Bozzo	Registration Number	77190

Electronic Patent Application Fee Transmittal

Application Number:	16893023			
Filing Date:	04-Jun-2020			
Title of Invention:	FILE FORMAT AND PLATFORM FOR STORAGE AND VERIFICATION OF CREDENTIALS			
First Named Inventor/Applicant Name:	Shaunt M. Sarkissian			
Filer:	Brian P. Bozzo/Julie Graf			
Attorney Docket Number:	0246162.00056			
Filed as Small Entity				
Filing Fees for Utility under 35 USC 111(a)				
Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Basic Filing:				
UTILITY APPL ISSUE FEE	2501	1	600	600
PUBL. FEE- EARLY, VOLUNTARY, OR NORMAL	1504	1	0	0
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				
Miscellaneous:				
Total in USD (\$)				600

Electronic Acknowledgement Receipt

EFS ID:	45467616
Application Number:	16893023
International Application Number:	
Confirmation Number:	1826
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:	Brian P. Bozzo/Julie Graf
Filer Authorized By:	Brian P. Bozzo
Attorney Docket Number:	0246162.00056
Receipt Date:	13-APR-2022
Filing Date:	04-JUN-2020
Time Stamp:	17:54:55
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	DA
Payment was successfully received in RAM	\$ 600
RAM confirmation Number	E20224CH54532618
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)	Web85b.pdf	62950	no	2
			54c4192b366ad4654c4a76116097bcd1f0262bd0		
Warnings:					
Information:					
2	Fee Worksheet (SB06)	fee-info.pdf	40278	no	2
			a4f559ed6b6fc5dc32c5cf878fc527d374868162		
Warnings:					
Information:					
Total Files Size (in bytes):			103228		
This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503. <u>New Applications Under 35 U.S.C. 111</u> If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application. <u>National Stage of an International Application under 35 U.S.C. 371</u> If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course. <u>New International Application Filed with the USPTO as a Receiving Office</u> If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.					



UNITED STATES PATENT AND TRADEMARK OFFICE

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

NOTICE OF ALLOWANCE AND FEE(S) DUE

26285 7590 03/02/2022
K&L GATES LLP-Pittsburgh
210 SIXTH AVENUE
PITTSBURGH, PA 15222-2613

EXAMINER	
NIPA, WASIKA	
ART UNIT	PAPER NUMBER

2433

DATE MAILED: 03/02/2022

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
16/893,023	06/04/2020	Shaunt M. Sarkissian	0246162.00056	1826

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	\$600	\$0.00	\$0.00	\$600	06/02/2022

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. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

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

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

PART B - FEE(S) TRANSMITTAL

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

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

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

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

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

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

26285 7590 03/02/2022
K&L GATES LLP-Pittsburgh
210 SIXTH AVENUE
PITTSBURGH, PA 15222-2613

Certificate of Mailing or Transmission

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

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

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
16/893,023	06/04/2020	Shaunt M. Sarkissian	0246162.00056	1826

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	\$600	\$0.00	\$0.00	\$600	06/02/2022

EXAMINER	ART UNIT	CLASS-SUBCLASS
NIPA, WASIKA	2433	726-007000

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/AIA/122 or PTO/SB/122) attached.

☐ "Fee Address" indication (or "Fee Address" Indication form PTO/AIA/47 or 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,

1 _____

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

2 _____

3 _____

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

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

(A) NAME OF ASSIGNEE

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

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

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

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

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

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

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

☐ Applicant certifying micro entity status. See 37 CFR 1.29

☐ Applicant asserting small entity status. See 37 CFR 1.27

☐ Applicant changing to regular undiscounted fee status.

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

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

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

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

Authorized Signature _____

Date _____

Typed or printed name _____

Registration No. _____



UNITED STATES PATENT AND TRADEMARK OFFICE

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

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
16/893,023	06/04/2020	Shaunt M. Sarkissian	0246162.00056	1826
26285	7590	03/02/2022	EXAMINER	
K&L GATES LLP-Pittsburgh 210 SIXTH AVENUE PITTSBURGH, PA 15222-2613			NIPA, WASIKA	
			ART UNIT	PAPER NUMBER
			2433	
DATE MAILED: 03/02/2022				

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

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

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

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

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

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

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

Privacy Act Statement

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

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

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

Notice of Allowability	Application No. 16/893,023	Applicant(s) Sarkissian, Shaunt M.	
	Examiner WASIKA NIPA	Art Unit 2433	AIA (FITF) Status No

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

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

1. ☒ This communication is responsive to 01/27/2022.
☐ 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 1-3,5-11 and 13-19. As a result of the allowed claim(s), you may be eligible to benefit from the **Patent Prosecution Highway** program at a participating intellectual property office for the corresponding application. For more information, please see http://www.uspto.gov/patents/init_events/pph/index.jsp or send an inquiry to PPHfeedback@uspto.gov.

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

Certified copies:

a) ☐ All b) ☐ Some* c) ☐ None of the:

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

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

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

* Certified copies not received: ____.

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

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

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

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

Attachment(s)

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

/WASIKA NIPA/ Primary Examiner, Art Unit 2433	
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The present application, filed on or after March 16, 2013, is being examined under the first inventor to file provisions of the AIA.

DETAILED ACTION

1. This is in response to the communication filed on 01/27/2022. Claims 1-19 were pending in the application. Claims 1-3, 5-11 and 13-19 have been allowed. Claim 4 and 12 are cancelled.

TERMINAL DISCLAIMER

2. The terminal disclaimer filed on 02/07/2022 disclaiming the terminal portion of any patent granted on this application which would extend beyond the expiration date of US Patent No. 9,251,531 B2 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 Brian Bozzo on Feb 17th, 2022 followed by an e-mail.

The application has been amended as follows:

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

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;

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;

generating, by a processor of ~~[[the]]~~ an 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;

transmitting, to the OVER file storage client device of the user, the OVER file in response to the OVER file generation request;

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 Near Field Communication (NFC) protocol-based communication associated with the OVER file on the OVER file storage client device of the user;

verifying that the NFC protocol-based communication 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 NFC protocol-based communication associated with the OVER file on the OVER file storage client device of the user corresponds to the information associated with the credential of the user that is stored in the OVER engine;

requesting, by the processor of the OVER engine to the issuing agency, an agency authentication to validate the credential, wherein the issuing agency issued the credential of the user;

receiving, by the OVER engine, a status indicator and credential information associated with the credential; and

storing, by the OVER engine, the status indicator.

2. (Original) 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, and the method further comprises:

receiving, from a second OVER file storage client device of the user, a second OVER file generation request to provide authentication of the user based on the information associated with the credential;

generating, by the processor, a 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; and

transmitting, to the second OVER file storage client device of the user, the second OVER file in response to the second OVER file generation request.

3. (Original) The computer-implemented method of claim 1, further comprising generating, by the processor of the OVER engine, the credential, wherein the credential is generated after the processor determines that no credential of the user is stored.

4. (Cancelled)

5. (Original) The computer-implemented method of claim 1, further comprising generating, by the OVER engine, a device identifier for the credential, wherein the device identifier limits the credential to the OVER file storage client device.

6. (Original) The computer-implemented method of claim 1, further comprising generating, by the OVER engine, a reference to a remotely stored credential, wherein the information associated with the credential of the user comprises the reference to the remotely stored credential.

7. (Original) The computer-implemented method of claim 1, further comprising checking, by the OVER engine, a status indicator of a stored credential, wherein the OVER file generation request comprises a credential identifier for specifying which credential among a plurality of credentials of the user is officially represented by the OVER file.

8. (Original) The computer-implemented method of claim 7, wherein the OVER file comprises a portion of the stored credential.

9. (Currently Amended) 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;

transmit, to the OVER file storage client device of the user, the OVER file in response to the OVER file generation request;

receive, from an OVER file third-party client verifying device, a verifying request to verify that the OVER file transmitted to the OVER file storage client device of the user authenticates the user based on a Near Field Communication (NFC) protocol-based communication associated with the OVER file on the OVER file storage client device of the user;

verify that the NFC protocol-based communication associated with the OVER file corresponds with the information associated with the credential of the user, in response to the verifying request; [[and]]

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;

request the credential from the issuing agency, wherein the issuing agency stores credentials issued by the issuing agency;

receive the status indicator and credential information associated with the credential transmitted by the issuing agency; and
store the credential and a status indicator.

10. (Original) The apparatus 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, and the instructions are further configured to program the processor to
receive, from a second OVER file storage client device of the user, a second OVER file generation request to provide authentication of the user based on the information associated with the credential;
generate a 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; and
transmit, to the second OVER file storage client device of the user, the second OVER file in response to the second OVER file generation request.

11. (Original) The apparatus of claim 9, wherein the instructions further program the processor to generate the credential, wherein the credential is generated after the processor determines that no matching credential is stored.

12. (Cancelled)

13. (Original) The apparatus of claim 9, wherein the instructions are further configured to program the processor to generate a device identifier for the credential, wherein the device identifier limits the credential to the client device.

14. (Original) The apparatus of claim 9, wherein the instructions are further configured to program the processor to generate a reference to a remotely stored credential, wherein the information associated with the credential of the user comprises the reference to the remotely stored credential.

15. (Original) The apparatus of claim 9, wherein the instructions are further configured to program the processor to check a stored status indicator of a stored credential, wherein the status indicator comprises the stored status indicator.

16. (Original) The apparatus of claim 9, wherein the instructions are further configured to program the processor to check a status indicator of a stored credential, wherein the OVER file generation request comprises a credential identifier for specifying which credential among a plurality of credentials of the user is officially represented by the OVER file.

17. (Original) The apparatus of claim 16, wherein when the credential identifier matches the stored credential, and the authentication message comprises the status indicator of the stored credential.

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

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;

generating, by a processor of ~~[[the]]~~ an 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;

transmitting, to the OVER file storage client device of the user, the OVER file in response to the OVER file generation request;

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 Bluetooth protocol-based communication associated with the OVER file on the OVER file storage client device of the user;

verifying that the Bluetooth protocol-based communication 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 Bluetooth protocol-based communication associated with the OVER file on the OVER file storage client device of the user corresponds to the information associated with the credential of the user that is stored in the OVER engine;

requesting, by the processor of the OVER engine to the issuing agency, an agency authentication to validate the credential, wherein the issuing agency issued the credential of the user;

receiving, by the OVER engine, a status indicator and credential information associated with the credential; and

storing, by the OVER engine, the status indicator.

19. (Original) The computer-implemented method of claim 18, 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, and the method further comprises:

receiving, from a second OVER file storage client device of the user, a second OVER file generation request to provide authentication of the user based on the information associated with the credential;

generating, by the processor, a 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; and

transmitting, to the second OVER file storage client device of the user, the second OVER file in response to the second OVER file generation request.

EXAMINER'S REASONS FOR ALLOWANCE

3. Claims 1-3, 5-11 and 13-19 have been allowed. The following is an examiner's statement of reasons for allowances:

The Applicant's replies make evident the reasons for allowance, satisfying the "record as a whole" proviso of the rule 37 CFR 1.104(e). The grounds of claim rejection was reconsidered and withdrawn based on the substance of applicant's amendments, remarks and arguments (see remarks, filed on 01/27/2022, pages 8-12) and the proposed examiner's amendment, as such the reasons for allowance are in all probability evident from the record and no statement is deemed necessary (see MPEP 1302.14).

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, 8 am to 5 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jeffrey 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/
Primary Examiner, Art Unit 2433

<i>Examiner-Initiated Interview Summary</i>	Application No. 16/893,023	Applicant(s) Sarkissian, Shaunt M.		
	Examiner WASIKA NIPA	Art Unit 2433	AIA (First Inventor to File) Status No	Page 1 of 1

All Participants (applicant, applicants representative, PTO personnel)	Title	Type
WASIKA NIPA	Primary Examiner	Telephonic
Brian P. Bozzo	Attorney of Record	

Date of Interview: 15 February 2022

Issues Discussed:

Proposed Amendment(s)

Examiner proposed to amend claim 4 to claim 1 to put the application in condition for allowance. Similar amendments are necessary for the other independent claims.

/WASIKA NIPA/ Primary Examiner, Art Unit 2433	
Applicant is reminded that a complete written statement as to the substance of the interview must be made of record in the application file. It is the applicants responsibility to provide the written statement, unless the interview was initiated by the Examiner and the Examiner has indicated that a written summary will be provided. See MPEP 713.04 Please further see: MPEP 713.04 Title 37 Code of Federal Regulations (CFR) § 1.133 Interviews, paragraph (b) 37 CFR § 1.2 Business to be transacted in writing	

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.

<i>Search Notes</i> 	Application/Control No. 16/893,023	Applicant(s)/Patent Under Reexamination Sarkissian, Shaunt M.
	Examiner WASIKA NIPA	Art Unit 2433

CPC - Searched*		
Symbol	Date	Examiner
H04L63/08	02/18/2022	WN
G06Q20/3274	02/18/2022	WN
G06Q30/0251	02/18/2022	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	02/18/2022	WN
Google Patent Search	02/18/2022	WN
Inventor Search	02/18/2022	WN
Assignee Search	02/18/2022	WN
CPC classification search with limited text	02/18/2022	WN

/WASIKA NIPA/ Primary Examiner, Art Unit 2433	
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<i>Search Notes</i> 	Application/Control No. 16/893,023	Applicant(s)/Patent Under Reexamination Sarkissian, Shaunt M.
	Examiner WASIKA NIPA	Art Unit 2433

Interference Search			
US Class/CPC Symbol	US Subclass/CPC Group	Date	Examiner
H04N19	513	02/18/2022	WN
H04N19	105	02/18/2022	WN

/WASIKA NIPA/ Primary Examiner, Art Unit 2433	
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Issue Classification 	Application/Control No. 16/893,023	Applicant(s)/Patent Under Reexamination Sarkissian, Shaunt M.
	Examiner WASIKA NIPA	Art Unit 2433

CPC						
Symbol					Type	Version
H04L	/	63	/	083	F	2013-01-01
G06Q	/	30	/	0251	I	2013-01-01
G06Q	/	20	/	3274	I	2013-01-01
G06Q	/	20	/	3821	I	2013-01-01
H04L	/	63	/	08	I	2013-01-01
H04L	/	63	/	0861	I	2013-01-01
H04L	/	2463	/	102	A	2013-01-01

CPC Combination Sets				
Symbol	Type	Set	Ranking	Version
/				

NONE (Assistant Examiner) _____ (Date) _____		Total Claims Allowed: 17	
/WASIKA NIPA/ Primary Examiner, Art Unit 2433 (Primary Examiner) _____ (Date) 18 February 2022		O.G. Print Claim(s) 1	O.G. Print Figure 1

Issue Classification 	Application/Control No. 16/893,023	Applicant(s)/Patent Under Reexamination Sarkissian, Shaunt M.
	Examiner WASIKA NIPA	Art Unit 2433

INTERNATIONAL CLASSIFICATION			
CLAIMED			
H04L	/	29	/ 06

NON-CLAIMED			
/	/		

US ORIGINAL CLASSIFICATION	
CLASS	SUBCLASS
726	7

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

NONE		Total Claims Allowed:	
(Assistant Examiner)	(Date)	17	
/WASIKA NIPA/ Primary Examiner, Art Unit 2433	18 February 2022	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	1

Issue Classification 	Application/Control No. 16/893,023	Applicant(s)/Patent Under Reexamination Sarkissian, Shaunt M.
	Examiner WASIKA NIPA	Art Unit 2433

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

CLAIMS															
Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original
1	1	9	10	17	19										
2	2	10	11												
3	3	-	12												
-	4	11	13												
4	5	12	14												
5	6	13	15												
6	7	14	16												
7	8	15	17												
8	9	16	18												

NONE (Assistant Examiner) _____ (Date) _____		Total Claims Allowed: 17	
/WASIKA NIPA/ Primary Examiner, Art Unit 2433 (Primary Examiner) _____ (Date) _____		O.G. Print Claim(s) 1	O.G. Print Figure 1

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number	16893023
	Filing Date	2020-06-04
	First Named Inventor	Shaunt M. Sarkissian
	Art Unit	2433
	Examiner Name	Wasika Nipa
	Attorney Docket Number	0246162.00056

U.S.PATENTS						Remove
Examiner Initial*	Cite No	Patent Number	Kind Code ¹	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1					

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U.S.PATENT APPLICATION PUBLICATIONS						Remove
Examiner Initial*	Cite No	Publication Number	Kind Code ¹	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	20160055322	A1	2016-02-25	Thomas	
	2	20150032627	A1	2015-01-29	Dill et al.	
	3	20140279475	A1	2014-09-18	Castrechini et al.	
	4	20130262315	A1	2013-10-03	Hruska	
	5	20150310419	A1	2015-10-29	Kadasler et al.	

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

Application Number	16893023
Filing Date	2020-06-04
First Named Inventor	Shaunt M. Sarkissian
Art Unit	2433
Examiner Name	Wasika Nipa
Attorney Docket Number	0246162.00056

6	20150112790	A1	2015-04-23	Wolinsky et al.
7	20150269569	A1	2015-09-24	Sarkissian et al.
8	20150363808	A1	2015-12-17	Maggio

If you wish to add additional U.S. Published Application citation information please click the Add button.

FOREIGN PATENT DOCUMENTS

Examiner Initial*	Cite No	Foreign Document Number ³	Country Code ²	Kind Code ⁴	Publication Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear	T ⁵
	1							

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NON-PATENT LITERATURE DOCUMENTS

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

If you wish to add additional non-patent literature document citation information please click the Add button.

EXAMINER SIGNATURE

Examiner Signature	/WASIKA NIPA/	Date Considered	02/18/2022
--------------------	---------------	-----------------	------------

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

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

Application Number	16893023
Filing Date	2020-06-04
First Named Inventor	Shaunt M. Sarkissian
Art Unit	2433
Examiner Name	Wasika Nipa
Attorney Docket Number	0246162.00056

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

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

Application Number	16893023
Filing Date	2020-06-04
First Named Inventor	Shaunt M. Sarkissian
Art Unit	2433
Examiner Name	Wasika Nipa
Attorney Docket Number	0246162.00056

CERTIFICATION STATEMENT

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

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

OR

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

See attached certification statement.

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

A certification statement is not submitted herewith.

SIGNATURE

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

Signature	/Roberto Capriotti/	Date (YYYY-MM-DD)	2021-11-23
Name/Print	Roberto Capriott	Registration Number	46,599

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

Privacy Act Statement

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

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

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

PE2E SEARCH - Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	British Equivalents	Time Stamp
L1	3	((("CORTEX") near3 ("MCP") near3 ("INC"))).AS,AANM.	(USPAT)	OR	ON	ON	2022/02/18 03:26 PM
L2	24	((("SARKISSIAN") near3 ("Shaunt"))).INV.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2022/02/18 03:27 PM
L3	2	"20160055322".pn.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2022/02/18 03:28 PM
L4	2	("20150032627").pn.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2022/02/18 03:29 PM
L5	2	"20130262315".pn.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2022/02/18 03:30 PM
L6	2	("20150363808").pn.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2022/02/18 03:33 PM
L7	2	("20150112790").pn.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2022/02/18 06:15 PM
L8	143988	(authenticat\$3 authori\$6 validat\$3 verif\$3) SAME (file content document certificate) SAME (receiv\$3 request\$3) SAME (credential identifier)	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, CA, CH, CN, DD, DE, EA, EP, ES, FR, GB, JP, KR, OA, RU, SU, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/02/18 06:21 PM
L9	282481	(H04N19/513 OR H04N19/105 OR H04N19/11 OR H04N19/139 OR H04N19/176 OR H04N19/503 OR H04N19/517 OR H04N19/56 OR H04N19/573 OR H04N19/58 OR H04N19/593 OR H04N19/109 OR H04N19/122 OR H04N19/70 OR H04N19/91).cpc.	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, CA, CH, CN, DD, DE, EA, EP, ES, FR, GB, JP, KR, OA, RU, SU, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/02/18 06:22 PM
L10	80	L9 AND L8	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, CA, CH, CN, DD, DE, EA, EP, ES, FR, GB, JP, KR, OA, RU, SU, WO); FPRS; EPO;	OR	ON	ON	2022/02/18 06:22 PM

L11	25	officially WITH verifiable WITH electronic	JPO; DERWENT; IBM_TDB) (US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, CA, CH, CN, DD, DE, EA, EP, ES, FR, GB, JP, KR, OA, RU, SU, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/02/18 07:48 PM
L12	50	officially WITH verifiable	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, CA, CH, CN, DD, DE, EA, EP, ES, FR, GB, JP, KR, OA, RU, SU, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/02/18 07:50 PM
L13	63876	(generat\$3 creat\$3 construct\$3) WITH (credential identifier id) SAME (authenticat\$3 authori\$6 validat\$3) SAME (document file certificate)	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, CA, CH, CN, DD, DE, EA, EP, ES, FR, GB, JP, KR, OA, RU, SU, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/02/18 07:52 PM
L14	31362	(generat\$3 creat\$3 construct\$3) WITH (credential identifier id) SAME (authenticat\$3 authori\$6 validat\$3) SAME (document file certificate) SAME (server provider)	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, CA, CH, CN, DD, DE, EA, EP, ES, FR, GB, JP, KR, OA, RU, SU, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/02/18 07:53 PM
L15	6939	(generat\$3 creat\$3 construct\$3) WITH (credential identifier id) SAME (authenticat\$3 authori\$6 validat\$3) SAME (document file certificate) SAME (server provider) AND (nfc field WITH communication)	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, CA, CH, CN, DD, DE, EA, EP, ES, FR, GB, JP, KR, OA, RU, SU, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/02/18 07:55 PM
L16	1292	(generat\$3 creat\$3 construct\$3) WITH (credential identifier id) SAME (authenticat\$3 authori\$6 validat\$3) SAME (document file certificate) SAME (server provider) SAME (nfc field WITH communication)	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, CA, CH, CN, DD, DE, EA, EP, ES, FR, GB, JP, KR, OA, RU, SU, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/02/18 08:01 PM
L17	949	(generat\$3 creat\$3 construct\$3) WITH	(US-PGPUB; USPAT; USOCR; FIT (AU, AP,	OR	ON	ON	2022/02/18 08:02 PM

L18	1152	(credential identifier id) SAME (authentication\$3) (authorisation\$6 validation\$3) SAME (document file certificate) SAME (server provider) SAME (nfc field WITH communication) AND (issu\$3)	AT, CA, CH, CN, DD, DE, EA, EP, ES, FR, GB, JP, KR, OA, RU, SU, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/02/18 08:05 PM
L19	544	(credential identifier id) SAME (authentication\$3) (authorisation\$6 validation\$3) SAME (document file certificate) SAME (server provider) SAME (nfc field WITH communication) AND (issu\$3) AND virtual	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, CA, CH, CN, DD, DE, EA, EP, ES, FR, GB, JP, KR, OA, RU, SU, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/02/18 08:05 PM
L20	464	(credential identifier id) SAME (authentication\$3) (authorisation\$6 validation\$3) SAME (document file certificate) SAME (server provider) SAME (nfc field WITH communication) AND (issu\$3) SAME virtual	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, CA, CH, CN, DD, DE, EA, EP, ES, FR, GB, JP, KR, OA, RU, SU, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/02/18 08:05 PM
L22	447	(credential identifier id) SAME (authentication\$3) (authorisation\$6 validation\$3) SAME (document file certificate) SAME (server provider) SAME (nfc field WITH communication) AND (issu\$3) SAME virtual SAME (storage\$3 save\$3)	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, CA, CH, CN, DD, DE, EA, EP, ES, FR, GB, JP, KR, OA, RU, SU, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/02/18 08:15 PM
L23	359	(credential identifier id) SAME (authentication\$3) (authorisation\$6 validation\$3) SAME (document file certificate) SAME (server provider) SAME (nfc field WITH	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, CA, CH, CN, DD, DE, EA, EP, ES, FR, GB, JP, KR, OA, RU, SU, WO); FPRS; EPO; JPO; DERWENT;	OR	ON	ON	2022/02/18 08:16 PM

		communication) AND (issu\$3) SAME virtual SAME (stor\$3 sav\$3) AND (limit\$3 constrain\$3) AND remote	IBM_TDB)				
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PE2E SEARCH - Search History (Interference)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	British Equivalents	Time Stamp
N1	4	(issu\$3 WITH agency AND nfc AND (id identifier credential)).clm.	(US-PGPUB; USPAT)	OR	ON	ON	2022/02/18 08:04 PM
N2	5	(nfc AND officially AND (authenticat\$3 verifi\$6) AND (id credential)).clm.	(US-PGPUB; USPAT)	OR	ON	ON	2022/02/18 08:12 PM
N3	449	((id identifier credential) AND issu\$3 AND nfc).clm.	(US-PGPUB; USPAT)	OR	ON	ON	2022/02/18 08:14 PM
N4	45407	L9	(US-PGPUB; USPAT)	OR	ON	ON	2022/02/18 08:14 PM
N5	0	N4 AND N3	(US-PGPUB; USPAT)	OR	ON	ON	2022/02/18 08:14 PM



UNITED STATES PATENT AND TRADEMARK OFFICE

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

APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
16/893,023	06/04/2020	Shaunt M. Sarkissian	0246162.00056

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

CONFIRMATION NO. 1826
POA ACCEPTANCE LETTER



Date Mailed: 02/09/2022

NOTICE OF ACCEPTANCE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 02/07/2022.

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

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

/zabraha/

Application Number * 16/893,023 *	Application/Control No. 16/893,023	Applicant(s)/Patent under Reexamination Sarkissian, Shaunt M.	
	Examiner NIPA, WASIKA	Art Unit 2433	
Document Code - DISQ		Internal Document - DO NOT MAIL	

TERMINAL DISCLAIMER	☒ APPROVED	☐ DISAPPROVED
Date Filed: <u>07 February 2022</u>	This patent is subject to a Terminal Disclaimer	

Approved/Disapproved by:
/LAWANA R HIXON/ Technology Center: <u>OPLC</u> Telephone: <u>(571)272-6074</u> _____

**TERMINAL DISCLAIMER TO OBVIATE A DOUBLE PATENTING
REJECTION OVER A "PRIOR" PATENT**

Docket Number (Optional)

0246162.00056

In re Application of: Shaunt M. Sarkissian

Application No.: 16/893,023

Filed: June 4, 2020

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

The applicant, CORTEX MCP, INC., 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. 77,190

/Brian P. Bozzo/

Signature

February 7, 2022

Date

Brian P. Bozzo

Typed or printed name

Agent of Record

Title

412-355-8235

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.

Electronic Acknowledgement Receipt

EFS ID:	44929072
Application Number:	16893023
International Application Number:	
Confirmation Number:	1826
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:	Brian P. Bozzo/Julie Graf
Filer Authorized By:	Brian P. Bozzo
Attorney Docket Number:	0246162.00056
Receipt Date:	07-FEB-2022
Filing Date:	04-JUN-2020
Time Stamp:	11:46:05
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no
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File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Terminal Disclaimer Filed	0246162-00056_TerminalDisclaimer.pdf	119367 8a9a7a233d2386ff7f147925b8feed486bb61960	no	1

Warnings:

Information:	
Total Files Size (in bytes):	119367
This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503. <u>New Applications Under 35 U.S.C. 111</u> If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application. <u>National Stage of an International Application under 35 U.S.C. 371</u> If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course. <u>New International Application Filed with the USPTO as a Receiving Office</u> If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.	

TRANSMITTAL FOR POWER OF ATTORNEY TO ONE OR MORE REGISTERED PRACTITIONERS

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

Application Number	16/893,023
Filing Date	June 4, 2020
First Named Inventor	Shaunt M. Sarkissian
Title	FILE FORMAT AND PLATFORM FOR STORAGE AND VERIFICATION OF CREDENTIALS
Art Unit	2433
Examiner Name	Wasika Nipa
Attorney Docket Number	0246162.00056

SIGNATURE of Applicant or Patent Practitioner

Signature	/Brian P. Bozzo/	Date (Optional)	2020-02-07
Name	Brian P. Bozzo	Registration Number	77,190
Title (if Applicant is a juristic entity)			
Applicant Name (if Applicant is a juristic entity)			

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



*Total of 2 forms are submitted.

This collection of information is required by 37 CFR 1.131, 1.32, and 1.33. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 3 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

POWER OF ATTORNEY BY APPLICANT

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

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

26285

OR

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

Name	Registration Number	Name	Registration Number

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

- ☒ The address associated with the above-mentioned Customer Number.

OR

- ☐ The address associated with Customer Number:

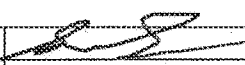
OR

☐ Firm or Individual Name:			
Address			
City	State	Zip	
Country			
Telephone	Email		

I am the Applicant:

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

SIGNATURE of Applicant for Patent

Signature		Date	6/26/2013
Name	Shaunt M. Sarkissian	Telephone	408-417-0928
Title and Company	CEO, Cortex MCP, Inc.		

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

- ☒ *Total of 1 forms are submitted.

This collection of information is required by 37 CFR 1.31, 1.32 and 1.33. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 3 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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

Electronic Acknowledgement Receipt

EFS ID:	44928477
Application Number:	16893023
International Application Number:	
Confirmation Number:	1826
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:	Brian P. Bozzo/Julie Graf
Filer Authorized By:	Brian P. Bozzo
Attorney Docket Number:	0246162.00056
Receipt Date:	07-FEB-2022
Filing Date:	04-JUN-2020
Time Stamp:	11:10:02
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no
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File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Power of Attorney	0246162-00056_POA.pdf	1206233	no	2
			fd90c4bd0e854b7f2236d32f20e988c8d20319a1		

Warnings:

Information:	
Total Files Size (in bytes):	1206233
This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503. <u>New Applications Under 35 U.S.C. 111</u> If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application. <u>National Stage of an International Application under 35 U.S.C. 371</u> If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course. <u>New International Application Filed with the USPTO as a Receiving Office</u> If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.	

Application Number * 16/893,023 *	Application/Control No. 16/893,023	Applicant(s)/Patent under Reexamination Sarkissian, Shaunt M.	
	Examiner NIPA, WASIKA	Art Unit 2433	
Document Code - DISQ		Internal Document - DO NOT MAIL	

TERMINAL DISCLAIMER	☐ APPROVED	☒ DISAPPROVED
Date Filed: <u>27 January 2022</u>	This patent is subject to a Terminal Disclaimer	

Approved/Disapproved by:
Td disapproved. See below for reasons. Technology Center: <u>OPLC</u> Telephone: <u>(571)272-6074</u> <u>The person who signed the terminal disclaimer is not the applicant, patentee or an attorney or agent of record. 37 CFR 1.321(a) and (b). (See FP 14.26.08).</u> <u>Please file a POA that gives power to the attorney who is signing the TD.</u> <u>Also, resubmit TD or file a TD that is signed by the applicant. No new fee required.</u> <u>/Lawana Hixon/</u>

**TERMINAL DISCLAIMER TO OBVIATE A DOUBLE PATENTING
REJECTION OVER A "PRIOR" PATENT**

Docket Number (Optional)

0246162.00056

In re Application of: Shaunt M. Sarkissian

Application No.: 16/893,023

Filed: June 4, 2020

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

The applicant, CORTEX MCP INC., 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. 77,190

/Brian P. Bozzo/

Signature

January 27, 2022

Date

Brian P. Bozzo

Typed or printed name

Agent

Title

412-355-8235

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.

Electronic Patent Application Fee Transmittal				
Application Number:		16893023		
Filing Date:		04-Jun-2020		
Title of Invention:		FILE FORMAT AND PLATFORM FOR STORAGE AND VERIFICATION OF CREDENTIALS		
First Named Inventor/Applicant Name:		Shaunt M. Sarkissian		
Filer:		Brian P. Bozzo/Jessica Brandenburg		
Attorney Docket Number:		0246162.00056		
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	170	170
Total in USD (\$)				170

Electronic Acknowledgement Receipt

EFS ID:	44853197
Application Number:	16893023
International Application Number:	
Confirmation Number:	1826
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:	Brian P. Bozzo/Jessica Brandenburg
Filer Authorized By:	Brian P. Bozzo
Attorney Docket Number:	0246162.00056
Receipt Date:	27-JAN-2022
Filing Date:	04-JUN-2020
Time Stamp:	15:54:29
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	DA
Payment was successfully received in RAM	\$ 170
RAM confirmation Number	E20221QF54454853
Deposit Account	021818
Authorized User	Jessica Brandenburg

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

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

37 CFR 1.17 (Patent application and reexamination processing fees)

File Listing:					
Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Transmittal Letter	Amendment_Transmittal_1-27-22.pdf	122062	no	4
			ff58527c270393ac1a45c5ca2cd8bf0e10c308c3		
Warnings:					
Information:					
2		Amendment_1-27-22.pdf	168303	yes	13
			993d931aee78d84fb721099b9e02b8a987d22983		
	Multipart Description/PDF files in .zip description				
	Document Description		Start	End	
	Amendment/Req. Reconsideration-After Non-Final Reject		1	1	
	Claims		2	7	
	Applicant Arguments/Remarks Made in an Amendment		8	13	
Warnings:					
Information:					
3	Terminal Disclaimer Filed	Terminal_Disclaimer_1-27-22.pdf	125275	no	1
			3cd4cfceada1d89b185a22ffdc33239da94798bb		
Warnings:					
Information:					
4	Fee Worksheet (SB06)	fee-info.pdf	38267	no	2
			ff238adb602d750dee21f7a42ac3cbb241c68e44		
Warnings:					
Information:					
Total Files Size (in bytes):			453907		

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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

Inventor(s): Sarkissian *et al.*) **Examiner:** Nipa, Wasika
)
Appl. No: 16/893,023) **Art Unit:** 2433
)
Filing Date: June 4, 2020) **Atty No.:** 0246162.00056
)
Confirmation No.: 1826)

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

K&L Gates LLP
Pittsburgh, Pennsylvania 15222
January 27, 2022

VIA ELECTRONIC FILING

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

AMENDMENT TRANSMITTAL

1. Transmitted herewith is an amendment for this application.

STATUS

2. Applicant is

☒ A statement that this filing is by a small entity is hereby asserted in accordance with the rule change effective September 8, 2000, 65 Fed. Reg. 54603.

☐ other than a small entity.

EXTENSION OF TERM

NOTE: "Extension of Time in Patent Cases (Supplement Amendments) - If a timely and complete response has been filed after a Non-Final Office Action, an extension of time is not required to permit filing and/or entry of an additional amendment after expiration of the shortened statutory period.

If a timely response has been filed after a Final Office Action, an extension of time is required to permit filing and/or entry of a Notice of Appeal or filing and/or entry of an additional amendment after expiration of the shortened statutory period unless the timely-filed response placed the application in condition for allowance. Of course, if a Notice of Appeal has been filed within the shortened statutory period, the period has ceased to run." Notice of December 10, 1985 (1061 O.G. 34-35).

NOTE: See 37 CFR 1.645 for extensions of time in interference proceedings, and 37 CFR 1.550(c) for extensions of time in reexamination proceedings.

3. The proceedings herein are for a patent application and the provisions of 37 CFR 1.136 apply.

(complete (a) or (b), as applicable)

(a) ☐ Applicant petitions for an extension of time under 37 CFR 1.136
(fees: 37 CFR 1.17(a)-(d) for the total number of months checked below:

<u>Extension (months)</u>	<u>Fee for other than small entity</u>	<u>Fee for small entity</u>
☐ one month	\$ 220.00	\$ 110.00
☐ two months	\$ 640.00	\$ 320.00
☐ three months	\$1,480.00	\$ 740.00
☐ four months	\$2,320.00	\$1,160.00

Fee: \$

If an additional **extension** of time is required, please consider this a petition therefor.

(check and complete the next item, if applicable)

☐ An extension for _____ months has already been secured and the fee paid therefor of \$_____ is deducted from the total fee due for the total months of extension now requested.

Extension fee due with this request **\$**

OR

(b) ☒ Applicant believes that no extension of term is required. However, this conditional petition is being made to provide for the possibility that applicant has inadvertently overlooked the need for a petition for extension of time.

FEE FOR CLAIMS

4. The fee for claims (37 CFR 1.16(b)-(d)) has been calculated as shown below:

(Col. 1)		(Col. 2)		(Col. 3)	SMALL ENTITY		OTHER THAN A SMALL ENTITY		
CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NO PREVIOUSLY PAID FOR		PRESENT EXTRA	RATE	ADDIT. FEE	O R	RATE	ADDIT. FEE
TOTAL	19 •	MINUS	20 ••	= 0	X50=	\$0		X100=	\$0
INDEP.	3 •	MINUS	3 •••	= 0	X240=	\$0		X480=	\$0
☐ FIRST PRESENTATION OF MULTIPLE DEP. CLAIM					+430=	\$0		+860=	\$0
					TOTAL ADDIT. FEE	\$0	O R	TOTAL ADDIT. FEE	\$0

- If the entry in Col. 1 is less than entry in Col. 2, write "0" in Col. 3.
- If the "Highest No. Previously Paid for" IN THIS SPACE is less than 20, enter "20."
- If the "Highest No. Previously Paid for" IN THIS SPACE is less than 3, enter "3."
The "Highest No. Previously Paid for" (Total or indep.) is the highest number found in the appropriate box in Col. 1 of a prior amendment or the number of claims originally filed.

WARNING "After final rejection or action (§ 1.113) amendments may be made cancelling claims or complying with any requirement of form which has been made." 37 CFR § 1.116(a) (emphasis added).

Complete (c) or (d), as applicable

(c) ☒ No additional fee for claims is required.

OR

(d) ☐ Total additional fee for claims required \$_____

FEE PAYMENT

5. ☐ Attached is a check in the sum of \$_____

☐ Charge Account No. _____ sum of \$_____

FEE DEFICIENCY

NOTE: *If there is a fee deficiency and there is no authorization to charge an account, additional fees are necessary to cover the additional time consumed in making up the original deficiency. If the maximum, six-month period has expired before the deficiency is noted and corrected, the application is held abandoned. In those instances where authorization to charge is included, processing delays are encountered in returning the papers to the PTO Finance Branch in order to apply these charges prior to action on the cases. Authorization to charge the deposit account for any fee deficiency should be checked. See the Notice of April 7, 1986, (1065 O.G. 31-33).*

6. ☒ If any additional extension and/or fee is required, charge Account No.
02-1818.

AND/OR

7. ☒ If any additional fee for claims is required, charge Account No.
02-1818.

/Brian P. Bozzo/
SIGNATURE OF AGENT

Reg. No.: 77,190

Brian P. Bozzo
(type or print name of agent)

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Inventor(s): Sarkissian *et al.*) Examiner: Nipa, Wasika
)
Appl. No: 16/893,023) Art Unit: 2433
)
Filing Date: June 4, 2020) Atty No.: 0246162.00056
)
Confirmation No.: 1826)

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

AMENDMENT AND RESPONSE TO OFFICE ACTION

K&L Gates LLP
Pittsburgh, Pennsylvania 15222
January 27, 2022

VIA EFS-WEB

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

Commissioner:

Responsive to the Non-Final Office Action dated November 10, 2021 (the "Office Action") issued in connection with the above-identified application (the "Subject Application"), Applicant submits the following:

AMENDMENTS TO THE CLAIMS begin on Page 2

REMARKS begin on Page 8.

AMENDMENTS TO THE CLAIMS

The following listing of claims replaces all prior listing of claims in the Subject Application.

1. (Original) A computer-implemented method comprising:
 - 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;
 - 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;
 - 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;
 - transmitting, to the OVER file storage client device of the user, the OVER file in response to the OVER file generation request;
 - 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 Near Field Communication (NFC) protocol-based communication associated with the OVER file on the OVER file storage client device of the user;
 - verifying that the NFC protocol-based communication 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 NFC protocol-based communication associated with the OVER file on the OVER file storage client device of the user corresponds to the information associated with the credential of the user that is stored in the OVER engine.
2. (Original) 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, and the method further comprises:

receiving, from a second OVER file storage client device of the user, a second OVER file generation request to provide authentication of the user based on the information associated with the credential;

generating, by the processor, a 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; and

transmitting, to the second OVER file storage client device of the user, the second OVER file in response to the second OVER file generation request.

3. (Original) The computer-implemented method of claim 1, further comprising generating, by the processor of the OVER engine, the credential, wherein the credential is generated after the processor determines that no credential of the user is stored.

4. (Original) The computer-implemented method of claim 1, further comprising:
requesting, by the processor of the OVER engine to the issuing agency, an agency authentication to validate the credential, wherein the issuing agency issued the credential of the user;

receiving, by the OVER engine, a status indicator and credential information associated with the credential; and

storing, by the OVER engine, the status indicator.

5. (Original) The computer-implemented method of claim 1, further comprising generating, by the OVER engine, a device identifier for the credential, wherein the device identifier limits the credential to the OVER file storage client device.

6. (Original) The computer-implemented method of claim 1, further comprising generating, by the OVER engine, a reference to a remotely stored credential, wherein the information associated with the credential of the user comprises the reference to the remotely stored credential.

7. (Original) The computer-implemented method of claim 1, further comprising checking, by the OVER engine, a status indicator of a stored credential, wherein the OVER file generation

request comprises a credential identifier for specifying which credential among a plurality of credentials of the user is officially represented by the OVER file.

8. (Original) The computer-implemented method of claim 7, wherein the OVER file comprises a portion of the stored credential.

9. (Original) 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;

transmit, to the OVER file storage client device of the user, the OVER file in response to the first OVER file generation request;

receive, from an OVER file third-party client verifying device, a verifying request to verify that the OVER file transmitted to the OVER file storage client device of the user authenticates the user based on a Near Field Communication (NFC) protocol-based communication associated with the OVER file on the OVER file storage client device of the user;

verify that the NFC protocol-based communication associated with the OVER file corresponds with the information associated with the credential of the user, in response to the verifying request; and

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.

10. (Original) The apparatus 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, and the instructions are further configured to program the processor to

receive, from a second OVER file storage client device of the user, a second OVER file generation request to provide authentication of the user based on the information associated with the credential;

generate a 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; and

transmit, to the second OVER file storage client device of the user, the second OVER file in response to the second OVER file generation request.

11. (Original) The apparatus of claim 9, wherein the instructions further program the processor to generate the credential, wherein the credential is generated after the processor determines that no matching credential is stored.

12. (Original) The apparatus of claim 9, wherein the instructions are further configured to program the processor to:

request the credential from the issuing agency, wherein the issuing agency stores credentials issued by the issuing agency;

receive the status indicator and credential information associated with the credential transmitted by the issuing agency; and

store the credential and a status indicator.

13. (Original) The apparatus of claim 9, wherein the instructions are further configured to program the processor to generate a device identifier for the credential, wherein the device identifier limits the credential to the client device.

14. (Original) The apparatus of claim 9, wherein the instructions are further configured to program the processor to generate a reference to a remotely stored credential, wherein the information associated with the credential of the user comprises the reference to the remotely stored credential.

15. (Original) The apparatus of claim 9, wherein the instructions are further configured

to program the processor to check a stored status indicator of a stored credential, wherein the status indicator comprises the stored status indicator.

16. (Original) The apparatus of claim 9, wherein the instructions are further configured to program the processor to check a status indicator of a stored credential, wherein the OVER file generation request comprises a credential identifier for specifying which credential among a plurality of credentials of the user is officially represented by the OVER file.

17. (Original) The apparatus of claim 16, wherein when the credential identifier matches the stored credential, and the authentication message comprises the status indicator of the stored credential.

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

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;

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;

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;

transmitting, to the OVER file storage client device of the user, the OVER file in response to the OVER file generation request;

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 Bluetooth protocol-based communication associated with the OVER file on the OVER file storage client device of the user;

verifying that the Bluetooth protocol-based communication 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 Bluetooth protocol-based communication associated with the OVER file on the OVER file storage client device of the user corresponds to the information associated with the credential of the user that is stored in the OVER engine.

19. (Original) The computer-implemented method of claim 18, 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, and the method further comprises:

receiving, from a second OVER file storage client device of the user, a second OVER file generation request to provide authentication of the user based on the information associated with the credential;

generating, by the processor, a 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; and

transmitting, to the second OVER file storage client device of the user, the second OVER file in response to the second OVER file generation request.

REMARKS

Upon entry of this amendment, claims 1-19 are pending in the Subject Application. Favorable reconsideration of this application is respectfully requested in view of the accompanying terminal disclaimer following remarks.

Non-Statutory Double Patenting

Claims 1, 9, and 18 stand rejected on grounds of non-statutory double patenting as allegedly unpatentable over Claim 1 of U.S. Patent No. 9,251,531 in view of U.S. Patent Application Publication No. 2012/0240204 to Bhatnagar, *et al.* (hereinafter "Bhatnagar"). Office Action, pg. 4. Without admitting or acquiescing to any of the assertions or characterizations raised by the Office Action, including any assertions or characterization regarding U.S. Patent No. 9,251,531, Applicant has submitted an accompanying terminal disclaimer. Accordingly, Applicant submits that the non-statutory double patenting rejection has been rendered moot and respectfully requests the withdrawal of the rejection.

Claim Rejections under 35 U.S.C. § 103

Claims 1-19 stand rejected under 35 U.S.C. § 103 as allegedly unpatentable over U.S. Patent Application Publication No. 2009/0307756 to Kang *et al.* (hereinafter, "Kang"), in view of Bhatnagar. Office Action, pg. 7. Without admitting or acquiescing to any of the specific assertions presented by the Office Action and without prejudice or disclaimer, Applicant respectfully disagrees in view of the and following remarks.

With respect to the consideration and determination of obviousness, the Supreme Court in *Graham v. John Deere*, 383 U.S. 1, 148 USPQ 459 (1966), stated:

Under § 103, the scope and content of the prior art are to be determined; differences between the prior art and the claims at issue are to be ascertained; and the level of ordinary skill in the pertinent art resolved. Against this background, the obviousness or non-obviousness of the subject matter is determined. Such secondary considerations as commercial success, long felt but unsolved needs, failure of others, etc., might be utilized to give light to the circumstances surrounding the origin of the subject matter sought to be patented. As indicia of obviousness or non-obviousness, these inquiries may have relevancy.

According to MPEP § 2141, it is Office policy to follow *Graham v. John Deere Co.* in the consideration and determination of obviousness under 35 U.S.C. § 103. A determination of obviousness under § 103 requires the determination of the following factual inquiries: (1) determining the scope and content of the prior art; (2) ascertaining the differences between the prior art and the claims at issue; (3) resolving the level of ordinary skill in the pertinent art; and (4) evaluating evidence

of secondary considerations, if any.

Based on the above factual inquiries, the Office must first consider all claim limitations. See *MPEP* § 2143.03. And with all limitations considered, a determination of obviousness requires that all claim limitations be taught or suggested by the cited references. See *CMFT Inc. v. Yieldup Int'l Corp.*, 349 F.3d 1333, 68 USPQ 1940, 1947 (Fed. Cir. 2003) (citing *In re Royka*, 490 F.2d 981, 985, 180 USPQ 580 (CCPA 1974)). When the Office asserts a combination of elements present in the cited references, it must identify a reason that would have prompted a person of ordinary skill in the relevant field to combine the elements in the way that the claimed invention does. See *KSR Int'l Co. v. Teleflex Inc.*, 127 S. Ct. 1727, 82 USPQ2d 1385, 1396 (2007). Furthermore, the key to supporting any rejection under 35 U.S.C. § 103 is a “clear articulation of the reason(s) why the claimed invention would have been obvious.” See *MPEP* § 2142. Furthermore, if an independent claim is nonobvious under 35 U.S.C. § 103, then any claim depending therefrom is nonobvious. *In re Fine*, 837 F.2d 1071, 5 USPQ2d 1596 (Fed. Cir. 1988).

As originally presented, Claim 1 recites a computer-implemented method comprising:

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***;

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;

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;

transmitting, to the OVER file storage client device of the user, the OVER file in response to the OVER file generation request;

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 Near Field Communication (NFC) protocol-based communication associated with the OVER file on the OVER file storage client device of the user;

verifying that the NFC protocol-based communication 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 NFC protocol-based communication associated with the OVER file on the OVER file storage client device of the user corresponds to the information associated with the credential of the user that is stored in the OVER engine.

Claim 1 (emphasis added).

The asserted combination of Kang and Bhatnagar fails to teach or suggest each and every feature recited by Claim 1. As an initial matter, the asserted combination of Kang and Bhatnagar neither teaches nor suggests the storage of a credential, as recited by Claim 1. In fact, it is unclear what portion of Kang is being used to allegedly teach the claimed "credential of a user for proving the user's identity or qualifications." Rather, Kang discloses obtaining an electronic document and using authentication methods to make sure that the user has authorization to obtain said document, but ***the electronic document of Kang, itself, is not a credential of a user for proving the user's identity or qualifications.*** Rather, it appears Kang expresses the electronic document like some kind of secure PDF. To the extent that the Office Action is insinuating that the certificate disclosed by Kang at paragraph [0054] is an equivalent to the claimed "credential," there are fundamental contradictions with the rest of the claim when taking this interpretation, as will be illustrated below. See MPEP § 2141.02 (requiring the claim to be considered "as a whole," meaning a rejection to a claim term in an earlier portion of the claim must be logically consistent with a rejection to a later portion of the claim that uses the same claim term).

Additionally, since Kang fails to disclose an equivalent credential of the user, the asserted combination of Kang and Bhatnagar neither teaches nor suggests ***"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.***" Although the Office Action relies on Para. [0063] to teach this feature of Claim 1, it is unclear how this excerpt of Kang discloses a "request to provide authentication of the user," let alone a request "based on the information associated with the credential," as recited by Claim 1. Furthermore, since the "information associated with the credential" is a claimed feature, whatever is defined as the "information associated with the credential" in the first elements needs to be consistent with what is being represented as the "information associated with the credential" in these second elements. This is not the case. Rather, Para. [0063] of Kang suggests appending authentication information associated with the electronic document, but it fails to describe this authentication information is for a "request to provide authentication of the user." In other words, Para. [0063] seems to suggest the authentication information of Kang is to establish that the electronic document an authentic copy of whatever it is sourced from, and has nothing to do with an authentication request of the user. Furthermore, there is absolutely no indication that this information in Kang is "based on the information associated with the credential."

The Office Action also cites to Paras. [0044], [0048], and [0054] of Kang to

assert that Kang suggests "**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," as recited by Claim 1. However, it is not understood where it is taught in any of these citations "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," let alone where this is "based on the information associated with the credential of the user." Again, it must be noted that the "credential" is defined in the first elements of claim 1, so whatever is represented in the rejection as the "credential" in the first elements needs to be consistent with what is being represented as the "credential" in these third elements. Here, it is not clear what in Kang is being represented as "the OVER file" as recited in claim 1. Further, the OVER file comprises "a virtual representation of the credential." If the "certificate" in Kang is used to represent the "credential" in the first elements of claim 1, then that "certificate" in Kang must somehow be taught to fit these third elements here in claim 1. However, paragraphs [0044], [0048], and [0054] show nothing of the sort.

Furthermore, the Office Action cites to Kang, Para. [0071] to allegedly teach "**transmitting**, to the OVER file storage client device of the user, **the OVER file in response to the OVER file generation request**." However, in Para. [0071], Kang actually transmits a "reading information package," which is defined in Para. [0069]. There is no showing that "transmitting ... the reading information package" is equivalent to "transmitting ... the OVER file," given that "the OVER file," as defined in the third elements of Claim 1. Whatever was represented as the "OVER file" in the third elements needs to be consistent with whatever is represented as the "OVER file" in the fourth elements. So far, the citation to Para. [0071] and the "reading information package" has nothing to do with the earlier citation for the third elements to any of paragraphs [0044], [0048], and [0054]. There is a gross inconsistency here.

According to the Office Action, Bhatnagar allegedly teaches "**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**." However, it is unclear what is "the OVER file" in Bhatnagar, given that "the OVER file" as asserted by the Office Action are rejected by Kang. Whatever the "OVER file" is, as defined in Kang, needs to be consistent with an alleged "OVER file" of Bhatnagar. This is not the case and there is no teaching to establish that the "OVER file" can validly cross over from the environment of Kang to the environment Bhatnagar. In fact, there is no teaching that the alleged combination would work at all.

Furthermore, the Office Action refers to a barcode scan as purporting to be an

NFC communication, but in Bhatnagar that is used to validate the service server, and does not "authenticate the user" as recited in claim 1.

The Office Action, also refers to Paras. [0046] and [0053] to assert that Bhatnagar teaches "**verifying that the NFC protocol-based communication associated with the OVER file corresponds with the information associated with the credential.**" Once again, it is unclear what NFC communication is Bhatnagar is associated with "the OVER file," since "the OVER file" is defined in the third elements that are rejected by Kang. The same issue applies to "the information associated with the credential," that is defined by Kang, but is used in the sixth elements of Claim 1 that are rejected by Bhatnagar. These are logical inconsistencies when trying to combine the teachings of Kang with Bhatnagar and using them to allegedly teach all of the elements of present Claim 1. This similarly applies to the reliance on Paras. [0045] and [0046] to assert that Bhatnagar teaches "**transmitting**, to the OVER file third-party client verifying device, **an authentication message**." Again it is unclear what is represented as the "information associated with the credential," since these are defined in the first elements that are rejected by Kang. Whatever "the information associated with the credential" is, defined in Kang, needs to be consistent with the elements allegedly taught by Bhatnagar, but it unclear if there is any teaching to establish a valid crossover from Kang to Bhatnagar, and if it even makes sense to combine them in this way.

For at least the aforementioned reasons, Applicant respectfully asserts that Claim 1 is patentable over Kang in view of Bhatnagar. The above-presented discussion applies with the same or similar force to Independent Claims 9 and 18. Dependent claims 2-8, 10-17, and 19 depend either directly or indirectly from Claims 1, 9, and 18. Accordingly, Applicant submits that Claims 1-19 are in condition of allowance and respectfully requests the withdrawal of the rejection.

Conclusion

Applicant's present Response should not in any way be taken as acquiescence to any of the specific assertions, statements, etc., presented in the Office Action not explicitly addressed herein. Applicant reserves the right to specifically address all such assertions and statements in subsequent responses. If the Examiner has any remaining concerns, the Examiner is invited to contact the undersigned at the telephone number set forth below so that such concerns may be expeditiously addressed. To the extent that an extension of time is required and is not otherwise addressed, Applicant hereby petitions for the same and requests that the fee be charged to Deposit Account 02-1818.

Respectfully submitted,

/Brian P. Bozzo/

Brian P. Bozzo
Registration No. 77,190
Attorney for Applicant

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Tel: (412) 355-8235

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.

PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875				Application or Docket Number 16/893,023		Filing Date 06/04/2020		☐ To be Mailed			
ENTITY: ☐ LARGE ☒ SMALL ☐ MICRO											
APPLICATION AS FILED - PART I											
		(Column 1)		(Column 2)							
FOR		NUMBER FILED		NUMBER EXTRA		RATE (\$)		FEE (\$)			
☐ BASIC FEE (37 CFR 1.16(a), (b), or (c))		N/A		N/A		N/A					
☐ SEARCH FEE (37 CFR 1.16(k), (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 \$50 =					
INDEPENDENT CLAIMS (37 CFR 1.16(h))		minus 3 = *				x \$230 =					
☐ APPLICATION SIZE FEE (37 CFR 1.16(s))		If the specification and drawings exceed 100 sheets of paper, the application size fee due is \$310 (\$155 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).									
☐ MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))											
* If the difference in column 1 is less than zero, enter "0" in column 2.						TOTAL					
APPLICATION AS AMENDED - PART II											
		(Column 1)		(Column 2)		(Column 3)					
AMENDMENT	01/27/2022	CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR		PRESENT EXTRA		RATE (\$)		ADDITIONAL FEE (\$)	
	Total (37 CFR 1.16(i))	* 19	Minus	** 20	= 0			x \$50 =		0	
	Independent (37 CFR 1.16(h))	* 3	Minus	*** 3	= 0			x \$240 =		0	
	☐ Application Size Fee (37 CFR 1.16(s))										
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))										
								TOTAL ADD'L FEE		0	
		(Column 1)		(Column 2)		(Column 3)					
AMENDMENT		CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR		PRESENT EXTRA		RATE (\$)		ADDITIONAL FEE (\$)	
	Total (37 CFR 1.16(i))	*	Minus	**	=			x \$0 =			
	Independent (37 CFR 1.16(h))	*	Minus	***	=			x \$0 =			
	☐ Application Size Fee (37 CFR 1.16(s))										
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))										
								TOTAL ADD'L FEE			
* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.								SLIE			
** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".								/FIKIRTE A GEREMEW/			
*** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3".											
The "Highest Number Previously Paid For" (Total or Independent) is the highest number found in the appropriate box in column 1.											

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

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

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number	16893023
	Filing Date	2020-06-04
	First Named Inventor	Shaunt M. Sarkissian
	Art Unit	2433
	Examiner Name	Wasika Nipa
	Attorney Docket Number	0246162.00056

U.S.PATENTS						Remove
Examiner Initial*	Cite No	Patent Number	Kind Code ¹	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
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Examiner Initial*	Cite No	Publication Number	Kind Code ¹	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	20160055322	A1	2016-02-25	Thomas	
	2	20150032627	A1	2015-01-29	Dill et al.	
	3	20140279475	A1	2014-09-18	Castrechini et al.	
	4	20130262315	A1	2013-10-03	Hruska	
	5	20150310419	A1	2015-10-29	Kadaster et al.	

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

Application Number	16893023
Filing Date	2020-06-04
First Named Inventor	Shaunt M. Sarkissian
Art Unit	2433
Examiner Name	Wasika Nipa
Attorney Docket Number	0246162.00056

6	20150112790	A1	2015-04-23	Wolinsky et al.
7	20150269569	A1	2015-09-24	Sarkissian et al.
8	20150363808	A1	2015-12-17	Maggio

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FOREIGN PATENT DOCUMENTS

Examiner Initial*	Cite No	Foreign Document Number ³	Country Code ² i	Kind Code ⁴	Publication Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear	T ⁵
	1							

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NON-PATENT LITERATURE DOCUMENTS

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

If you wish to add additional non-patent literature document citation information please click the Add button.

EXAMINER SIGNATURE

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

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

Application Number	16893023
Filing Date	2020-06-04
First Named Inventor	Shaunt M. Sarkissian
Art Unit	2433
Examiner Name	Wasika Nipa
Attorney Docket Number	0246162.00056

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

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

Application Number	16893023
Filing Date	2020-06-04
First Named Inventor	Shaunt M. Sarkissian
Art Unit	2433
Examiner Name	Wasika Nipa
Attorney Docket Number	0246162.00056

CERTIFICATION STATEMENT

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

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

OR

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

See attached certification statement.

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

A certification statement is not submitted herewith.

SIGNATURE

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

Signature	/Roberto Capriotti/	Date (YYYY-MM-DD)	2021-11-23
Name/Print	Roberto Capriott	Registration Number	46,599

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

Privacy Act Statement

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

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

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

Electronic Acknowledgement Receipt

EFS ID:	44352216
Application Number:	16893023
International Application Number:	
Confirmation Number:	1826
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:	Roberto Capriotti/Julie Graf
Filer Authorized By:	Roberto Capriotti
Attorney Docket Number:	0246162.00056
Receipt Date:	23-NOV-2021
Filing Date:	04-JUN-2020
Time Stamp:	14:58:30
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no
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File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Transmittal Letter	0246162-00056_IDS- Transmittal.pdf	82511	no	2
			e05648839222cf583c6014d10687de19c9e03623		

Warnings:

Information:					
2	Information Disclosure Statement (IDS) Form (SB08)	0246162-00056_IDS.pdf	612267	no	5
			814b920c1a90e440263e54d7ef730e1cf040994c		
Warnings:					
Information:					
Total Files Size (in bytes):				694778	
This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503. <u>New Applications Under 35 U.S.C. 111</u> If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application. <u>National Stage of an International Application under 35 U.S.C. 371</u> If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course. <u>New International Application Filed with the USPTO as a Receiving Office</u> If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.					

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Examiner:	Shaunt M. Sarkissian	)	Examiner:	Wasika Nipa
		)		
Serial No.:	16/893,023	)	Art Unit:	2433
		)		
Filing Date:	June 4, 2020	)	Confirmation No.:	1826

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

INFORMATION DISCLOSURE STATEMENT

Pittsburgh, Pennsylvania 15222
November 23, 2021

VIA ELECTRONIC FILING

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

Commissioner:

Assignee of the entire right, title and interest in and to the above-captioned application (hereinafter "Applicant"), in accordance with the duty of disclosure pursuant to 37 C.F.R. § 1.56, hereby advises the United States Patent and Trademark Office of the references listed on the accompanying forms PTO/SB/08a (substitute for 1449/PTO) *Information Disclosure Statement by Applicant*.

Applicant notes that although the cited references may be relevant to the examination of the above-referenced application, under 37 C.F.R. § 1.97(h), the filing of this *Information Disclosure Statement* "shall not be construed to be an admission that the information cited in the statement is, or is considered to be, material to patentability as defined in § 1.56(b)."

Applicant submits that no fee is necessary for consideration of this *Information Disclosure Statement* under 37 C.F.R. §1.97(b)(3). Nevertheless, the Office is hereby authorized to charge Account No. 02-1818 for any fees necessary for consideration of this *Information Disclosure Statement*.

Respectfully submitted,

/Roberto Capriotti/
Roberto Capriotti
Registration No. 46,599

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(412) 355-66423
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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
16/893,023	06/04/2020	Shaunt M. Sarkissian	0246162.00056	1826
26285	7590	11/10/2021	EXAMINER	
K&L GATES LLP-Pittsburgh			NIPA, WASIKA	
210 SIXTH AVENUE			ART UNIT	PAPER NUMBER
PITTSBURGH, PA 15222-2613			2433	
			NOTIFICATION DATE	DELIVERY MODE
			11/10/2021	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

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 1-19, as originally filed, are currently pending and have been considered below. Claim 1, 9 and 18 are independent claim.

Priority

4. The application is a continuation of 16/422,715 (US Patent No 10749859) filed on 05/24/2019 and 15/887,873 filed on 02/02/2018 and 14/982,981 (US Patent No 9,954,854) and 13/794,878 (US Patent No. 9,251,531) which claims benefit of 61/740,731 filed on 12/21/2012.

Double Patenting

5. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to

prevent the unjustified or improper timewise extension of the “right to exclude” granted by a patent and to prevent possible harassment by multiple assignees. A nonstatutory 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-l.jsp>.

Claims 1, 9 and 18 are rejected on the ground of nonstatutory double patenting as being unpatentable over claims 1 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, 9 and 18 of current application No.16/893,023 are rejected on the ground of nonstatutory double patenting as being unpatentable over claim 1 of US Patent No. 9,251,531 B2 in view of Bhatnagar (US Patent Application Publication No. 2012/0240204 A1).

Current Application No.(16/893,023)	Patent No.US 9,251,531 B2 (13/794,878)
1.A computer-implemented method comprising: 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; 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; 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; transmitting, to the OVER file storage client device of the user, the OVER file in response to the OVER file generation request. 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 <u>a Near Field Communication (NFC) protocol-based communication</u> associated with the OVER file on the OVER file storage client device of the user; verifying that <u>the NFC protocol-based communication</u> associated with the OVER file corresponds with the	1: A computer-implemented method comprising: 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; 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; 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; transmitting, to the OVER file storage client device of the user, the OVER file in response to the OVER file generation request; 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; verifying that the scan associated with the OVER file corresponds with the information associated with the credential

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 <u>the NFC protocol-based communication</u> associated with the OVER file on the OVER file storage client device of the user corresponds to the information associated with the credential of the user that is stored in the OVER engine .	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.
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US Patent No. 9,251,531 B2 does not explicitly disclose “the NFC protocol based communication”. Therefore Bhatnagar (US Patent Application Publication No. 2012/0240204 A1) is used to modify US Patent No 9,251,531 B2 to arrive at the claimed invention. Bhatnagar, ¶[0043], teaches a portable communication device scans the barcode of a user device. ¶[0048] teaches the portable device includes a NFC unit.

This is a non-provisional non-statutory double patenting rejection because the conflicting claims have been patented.

Claim Rejections - 35 USC § 103

6. 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 negated by the manner in which the invention was made.

7. **Claim 1-19 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).**

8. **Regarding Claim 1**, Kang discloses a computer-implemented method comprising:

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 (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);

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 (Kang, ¶[0063], the registration module produces additional metadata, appends

authentication information associated with the electronic document and stores the electronic document in the database);

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 (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);

transmitting, to the OVER file storage client device of the user, the OVER file in response to the OVER file generation request (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:

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 Near Field Communication (NFC) protocol-based communication associated with the OVER file on the OVER file storage client device of the user (Bhatnagar, ¶[0043], a portable communication device scans the barcode of a user device. ¶[0048], the portable device includes a NFC unit);

verifying that the NFC protocol-based communication 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 (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. ¶[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); and

transmitting, to the OVER file third-party client verifying device, an authentication message comprising an indication of whether the NFC protocol-based communication associated with the OVER file on the OVER file storage client device of the user corresponds to the information associated with the credential of the user that is stored in the OVER engine (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).

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.

9. **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, and the method further comprises:

receiving, from a second OVER file storage client device of the user, a second OVER file generation request to provide authentication of the user based on the information associated with the 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);

generating, by the processor, a 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 (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

transmitting, to the second OVER file storage client device of the user, the second OVER file in response to the second OVER file generation request (Kang, ¶[0071], the reading module performs security processing on the reading information package for transmission and transmits the resultant information package to the user).

10. **Regarding claim 3**, Kang in view of Bhatnagar discloses the computer-implemented method of claim 1, further comprising generating, by the

processor of the OVER engine, the credential, wherein the credential is generated after the processor determines that no credential of the user is stored (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).

11. **Regarding claim 4**, Kang in view of Bhatnagar discloses the computer-implemented method of claim 1, further comprising:

requesting, by the processor of the OVER engine to the issuing agency, an agency authentication to validate the credential, wherein the issuing agency issued 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);

receiving, by the OVER engine, a status indicator and credential information associated with the credential (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); and

storing, by the OVER engine, the 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).

12. **Regarding claim 5**, Kang in view of Bhatnagar discloses the computer-implemented method of claim 1, further comprising generating, by the OVER engine, a device identifier for the credential, wherein the device identifier limits 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).
13. **Regarding claim 6**, Kang in view of Bhatnagar discloses the computer-implemented method of claim 1, further comprising generating, by the OVER engine, a reference to a remotely stored credential, wherein the information

associated with the credential of the user comprises the reference to the remotely 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).

14. **Regarding claim 7**, Kang in view of Bhatnagar discloses the computer-implemented method of claim 1, further comprising checking, by the OVER engine, a status indicator of a stored credential, wherein the OVER file generation request comprises a credential identifier for specifying which credential among a plurality of credentials of the user is officially represented by the OVER file (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. Also 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).

15. **Regarding Claim 8**, Kang in view of Bhatnagar discloses the computer-implemented method of claim 7, 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).

16. **Regarding Claim 9**, Kang discloses an apparatus comprising:

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 (Kang, ¶[0063], the registration module produces additional metadata, appends authentication information associated with the electronic document and stores the electronic document in the database);

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 (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);

transmit, to the OVER file storage client device of the user, the OVER file in response to the first OVER file generation request (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, 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 (Bhatnagar, ¶[0048], memory):

receive, from an OVER file third-party client verifying device, a verifying request to verify that the OVER file transmitted to the OVER file storage client device of the user authenticates the user based on a Near Field Communication (NFC) protocol-based communication associated with the OVER file on the OVER file storage client device of the user (Bhatnagar, ¶[0043], a portable communication device scans the barcode of a user device. ¶[0048], the portable device includes a NFC unit);

verify that the NFC protocol-based communication associated with the OVER file corresponds with the information associated with the credential of the user, in response to the verifying request (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. ¶[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); and

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 (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).

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.

17. **Regarding claim 10**, Kang in view of Bhatnagar discloses the apparatus 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, and the instructions are further configured to program the processor to:

receive, from a second OVER file storage client device of the user, a second OVER file generation request to provide authentication of the user based on the information associated with the 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);

generate a 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 (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); and

transmit, to the second OVER file storage client device of the user, the second OVER file in response to the second OVER file generation request (Kang, ¶[0071], the reading module performs security processing on the reading information package for transmission and transmits the resultant information package to the user).

18. **Regarding Claim 11**, Kang in view of Bhatnagar discloses the apparatus of claim 9, wherein the instructions further program the processor to generate the credential, wherein the credential is generated after the processor determines that no matching credential is stored (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).

19. **Regarding Claim 12**, Kang in view of Bhatnagar discloses the apparatus of claim 9, wherein the instructions are further configured to program the processor to:

request the credential from the issuing agency, wherein the issuing agency stores credentials issued by the issuing agency (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);

receive the status indicator and credential information associated with the credential transmitted by the issuing agency (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); and

store the credential and a 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).

20. **Regarding claim 13**, Kang in view of Bhatnagar discloses the apparatus of claim 9, wherein the instructions are further configured to program the processor to generate a device identifier for the credential, wherein the device identifier limits the credential to the 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).

21. **Regarding Claim 14**, Kang in view of Bhatnagar discloses the apparatus of claim 9, wherein the instructions are further configured to program the processor to generate a reference to a remotely stored credential, wherein the information associated with the credential of the user comprises the reference to the remotely 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).

22. **Regarding Claim 15**, Kang in view of Bhatnagar discloses the apparatus of claim 9, wherein the instructions are further configured to program the processor to check a stored status indicator of a stored credential, wherein the status indicator comprises the stored 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. Also 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).
23. **Regarding Claim 16**, Kang in view of Bhatnagar discloses the apparatus of claim 9, wherein the instructions are further configured to program the processor to check a status indicator of a stored credential, wherein the OVER file generation request comprises a credential identifier for specifying which credential among a plurality of credentials of the user is officially represented by the OVER file (Kang, ¶[0063], the registration module produces additional metadata, appends authentication

information associated with the electronic document and stores the electronic document in the database).

24. **Regarding Claim 17**, Kang in view of Bhatnagar discloses the apparatus of claim 16, wherein when the credential identifier matches the stored credential, and the authentication message comprises the status indicator 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).

25. **Regarding Claim 18**, Kang discloses a computer-implemented method comprising:

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 (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);

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 (Kang, ¶[0063], the registration module produces additional metadata, appends authentication information associated with the electronic document and stores the electronic document in the database);

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 (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);

transmitting, to the OVER file storage client device of the user, the OVER file in response to the OVER file generation request (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:

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 Bluetooth protocol-based communication associated with the OVER file on the OVER file storage client device of the user (Bhatnagar, ¶[0043], a portable communication device scans the barcode of a user device. ¶[0048], the portable device includes a NFC unit);

verifying that the Bluetooth protocol-based communication 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 (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. ¶[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); and

transmitting, to the OVER file third-party client verifying device, an authentication message comprising an indication of whether the

Bluetooth protocol-based communication associated with the OVER file on the OVER file storage client device of the user corresponds to the information associated with the credential of the user that is stored in the OVER engine (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).

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 19**, Kang in view of Bhatnagar discloses the computer-implemented method of claim 18, 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, and the method further comprises:

receiving, from a second OVER file storage client device of the user, a second OVER file generation request to provide authentication of the user based on the information associated with the 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);

generating, by the processor, a 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 (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

transmitting, to the second OVER file storage client device of the user, the second OVER file in response to the second OVER file generation request (Kang, ¶[0071], the reading module performs security processing on the reading information package for transmission and transmits the resultant information package to the user).

Conclusion

27. 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, 8 am to 5 pm. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jeffrey 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>.

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/
Primary Examiner, Art Unit 2433

Notice of References Cited	Application/Control No. 16/893,023		Applicant(s)/Patent Under Reexamination Sarkissian, Shaunt M.	
	Examiner WASIKA NIPA		Art Unit 2433	Page 1 of 1

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*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	CPC Classification	US Classification
*	A	2009/0307756 A1	12-2009	Kang; Hyun Ku	G06F21/6218	726/4
*	B	2012/0240204 A1	09-2012	Bhatnagar; Piyush	G06F21/35	726/5
	C					
	D					
	E					
	F					
	G					
	H					
	I					
	J					
	K					
	L					
	M					

FOREIGN PATENT DOCUMENTS

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

NON-PATENT DOCUMENTS

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

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

<i>Search Notes</i> 	Application/Control No. 16/893,023	Applicant(s)/Patent Under Reexamination Sarkissian, Shaunt M.
	Examiner WASIKA NIPA	Art Unit 2433

CPC - Searched*		
Symbol	Date	Examiner
H04L63/08	11/05/2021	WN
G06Q20/3274	11/05/2021	WN
G06Q30/0251	11/05/2021	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	11/05/2021	WN
Google Patent Search	11/05/2021	WN
Inventor Search	11/05/2021	WN
Assignee Search	11/05/2021	WN
CPC classification search with limited text	11/05/2021	WN

/WASIKA NIPA/ Primary Examiner, Art Unit 2433	
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<i>Search Notes</i> 	Application/Control No. 16/893,023	Applicant(s)/Patent Under Reexamination Sarkissian, Shaunt M.
	Examiner WASIKA NIPA	Art Unit 2433

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

/WASIKA NIPA/ Primary Examiner, Art Unit 2433	
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EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S47	3	((("CORTEX") near3 ("MCP") near3 ("INC"))).AS,AANM.	USPAT	OR	OFF	2021/11/05 14:23
S48	16	((("Sarkissian") near3 ("Shaunt") near3 ("M"))).INV.	US-PGPUB; USPAT; USOCR	OR	OFF	2021/11/05 14:23
S49	16	S47 S48	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2021/11/05 14:24
S50	21	officially WITH verifiable WITH electronic	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2021/11/05 14:27
S51	2,286	(generat\$3 creat\$3 construct\$3) WITH (credential identifier id) WITH (authenticat\$3 authori\$6 verif\$6 validity) SAME (document file certificate) SAME stor\$3 SAME (server service provider)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2021/11/05 15:09
S52	181,748	(H04L63/083 or H04L63/0861 or G06Q30/0251 or G06Q20/3821 or H04L63/08 or G06Q20/3274 or H04L2463/102).cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2021/11/05 15:17
S53	1,562	(generat\$3 creat\$3 construct\$3) WITH (credential identifier id) WITH (authenticat\$3 authori\$6 verif\$6 validity) SAME (document file certificate) SAME stor\$3 SAME (server service provider) SAME (request\$3 receiv\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2021/11/05 15:17
S54	341	S52 AND S53	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2021/11/05 15:17

S55	1,574	(stor\$3 verif\$6) WITH (credential id identifier) SAME (mobile phone laptop tablet) SAME (authenticat\$3 autoriz\$6) SAME scan\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2021/11/05 16:02
S56	506	(id identity identifier credential) SAME (nfc WITH protocol field WITH communication) SAME (verify\$3 verification) AND virtual AND issu\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2021/11/05 16:14
S57	436	(id identity identifier credential) SAME (nfc WITH protocol field WITH communication) SAME (verify\$3 verification) AND virtual AND issu\$3 AND authenticat\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2021/11/05 16:19
S58	102	(id identity identifier credential) WITH issu\$3 WITH agency WITH request\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2021/11/05 16:23
S59	3	"20050038756".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2021/11/05 16:25
S60	364,387	(scan\$4 conver\$4) WITH (image hard\$copy document) WITH (digit\$7 electronic\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2021/11/05 16:29
S61	2,004	(G06F5/00 G06F7/60 G06F17/301 G08F19/322 G06F2205/00).cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2021/11/05 16:31
S62	183,730	S52 S61	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2021/11/05 16:31

S63	2,595	S62 AND S60	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2021/11/05 16:32
S64	456	(scan\$4 conver\$4) WITH (image hard\$copy document) WITH (digit\$7 electronic\$4) SAME (check\$3 assur\$4) WITH quality	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2021/11/05 16:49
S65	667	(scan\$4 conver\$4) WITH (image hard\$copy document) WITH (digit\$7 electronic\$4) SAME (check\$3 assur\$4) SAME (quality consistent\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2021/11/05 16:57
S66	37	(scan\$4 conver\$4) WITH (image hard\$copy document) WITH (digit\$7 electronic\$4) SAME (check\$3 assur\$4) SAME (quality consistent\$3) SAME meta\$data	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2021/11/05 16:59
S67	39	(scan\$4 conver\$4 digiti\$3) WITH (image hard\$copy document) WITH (digit\$7 electronic\$4) SAME (check\$3 assur\$4) SAME (quality consistent\$3) SAME meta\$data	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2021/11/05 17:02
S68	2	"20110225627".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2021/11/05 17:03
S69	3	"20130050512".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2021/11/05 17:26
S70	1,907	remot\$3 WITH electronic WITH signature	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2021/11/05 17:28

S71	968	remot\$3 WITH electronic WITH signature AND document	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2021/11/05 17:28
S72	762	remot\$3 WITH electronic WITH signature AND document AND (verif\$7)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2021/11/05 17:29
S73	738	remot\$3 WITH electronic WITH signature AND document AND (verif\$7) AND stor\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2021/11/05 17:29
S74	2	"20120151206".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2021/11/05 17:38
S75	757	(authentikat\$3) SAME server SAME (distance radius) SAME (transmi\$4 request\$3) SAME credential\$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2021/11/05 17:40
S76	151	(authentikat\$3) SAME server SAME (distance radius) SAME (transmi\$4 request\$3) SAME credential\$1 AND integrity	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2021/11/05 17:40
S77	122	(authentikat\$3) SAME server SAME (distance radius) SAME (transmi\$4 request\$3) SAME credential\$1 SAME (file code program software)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2021/11/05 17:43
S78	107	(authentikat\$3) SAME server SAME (distance radius) SAME (transmi\$4 request\$3) SAME credential\$1 AND (nfc field ADJ communication)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2021/11/05 20:52

EAST Search History (Interference)

<This search history is empty>

11/5/2021 8:56:34 PM

C:\Users\wnipa\Documents\EAST\Workspaces\16893023.wsp

Bibliographic Data

Application No: 16/893,023

Foreign Priority claimed: ☐ Yes ☒ No

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

Verified and Acknowledged:

/WASIKA NIPA/

Examiner's Signature

Initials

Title:

FILE FORMAT AND PLATFORM FOR STORAGE AND
VERIFICATION OF CREDENTIALS

FILING or 371(c) DATE	CLASS	GROUP ART UNIT	ATTORNEY DOCKET NO.
06/04/2020	726	2433	0246162.00056
RULE			

APPLICANTS

CORTEX MCP INC., Reno, NV, UNITED STATES

INVENTORS

Shaunt M. Sarkissian, Reno, NV, UNITED STATES

CONTINUING DATA

This application is a CON of 16422715 05/24/2019 PAT 10749859

16422715 is a CON of 15887873 02/02/2018ABN

15887873 is a CON of 14982981 12/29/2015 PAT 9954854

14982981 is a CON of 13794878 03/12/2013 PAT 9251531

13794878 has PRO of 61740731 12/21/2012

FOREIGN APPLICATIONS

IF REQUIRED, FOREIGN LICENSE GRANTED**

06/11/2020

**** SMALL ENTITY ****

STATE OR COUNTRY

UNITED STATES

ADDRESS

K&L GATES LLP-Pittsburgh

210 SIXTH AVENUE

PITTSBURGH, PA 15222-2613

UNITED STATES

FILING FEE RECEIVED

\$2,490



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APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
16/893,023	06/04/2020	Shaunt M. Sarkissian	0246162.00056

CONFIRMATION NO. 1826

PUBLICATION NOTICE



OC000000125082129

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

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

Publication No.US-2021-0119987-A1

Publication Date:04/22/2021

NOTICE OF PUBLICATION OF APPLICATION

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

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

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

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

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

PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875						Application or Docket Number 16/893,023	
APPLICATION AS FILED - PART I							
(Column 1)		(Column 2)		SMALL ENTITY		OTHER THAN SMALL ENTITY	
FOR	NUMBER FILED	NUMBER EXTRA	RATE(\$)	FEE(\$)		RATE(\$)	FEE(\$)
BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A	N/A	80		N/A	
SEARCH FEE (37 CFR 1.16(k), (l), or (m))	N/A	N/A	N/A	350		N/A	
EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A	N/A	400		N/A	
TOTAL CLAIMS (37 CFR 1.16(j))	19	minus 20 = *	x 50 =	0.00	OR		
INDEPENDENT CLAIMS (37 CFR 1.16(h))	3	minus 3 = *	x 240 =	0.00			
APPLICATION SIZE FEE (37 CFR 1.16(s))	If the specification and drawings exceed 100 sheets of paper, the application size fee due is \$310 (\$155 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).			0.00			
MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))				0.00			
			TOTAL	830		TOTAL	
* If the difference in column 1 is less than zero, enter "0" in column 2.							
APPLICATION AS AMENDED - PART II							
(Column 1)		(Column 2)		(Column 3)		SMALL ENTITY	
AMENDMENT A	CLAIMS REMAINING AFTER AMENDMENT	HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE(\$)	ADDITIONAL FEE(\$)		RATE(\$)
	Total (37 CFR 1.16(i))	*	Minus **	=	x =	OR	x =
	Independent (37 CFR 1.16(h))	*	Minus ***	=	x =	OR	x =
	Application Size Fee (37 CFR 1.16(s))					OR	
	FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))					OR	
				TOTAL ADD'L FEE		OR	TOTAL ADD'L FEE
(Column 1)		(Column 2)		(Column 3)		SMALL ENTITY	
AMENDMENT B	CLAIMS REMAINING AFTER AMENDMENT	HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE(\$)	ADDITIONAL FEE(\$)		RATE(\$)
	Total (37 CFR 1.16(i))	*	Minus **	=	x =	OR	x =
	Independent (37 CFR 1.16(h))	*	Minus ***	=	x =	OR	x =
	Application Size Fee (37 CFR 1.16(s))					OR	
	FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))					OR	
				TOTAL ADD'L FEE		OR	TOTAL ADD'L FEE
* If the entry in column 1 is less than the entry in column 2, write "0" in column 3. ** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20". *** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3". The "Highest Number Previously Paid For" (Total or Independent) is the highest found in the appropriate box in column 1.							



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APPLICATION NUMBER	FILING or 371(c) DATE	GRP ART UNIT	FIL FEE REC'D	ATTY. DOCKET NO	TOT CLAIMS	IND CLAIMS
16/893,023	06/04/2020	2491	910	0246162.00056	19	3

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

CONFIRMATION NO. 1826
UPDATED FILING RECEIPT



Date Mailed: 01/15/2021

Receipt is acknowledged of this non-provisional utility patent application. The application will be taken up for examination in due course. Applicant will be notified as to the results of the examination. Any correspondence concerning the application must include the following identification information: the U.S. APPLICATION NUMBER, FILING DATE, NAME OF FIRST INVENTOR, and TITLE OF INVENTION. Fees transmitted by check or draft are subject to collection.

Please verify the accuracy of the data presented on this receipt. If an error is noted on this Filing Receipt, please submit a written request for a corrected Filing Receipt, including a properly marked-up ADS showing the changes with strike-through for deletions and underlining for additions. If you received a "Notice to File Missing Parts" or other Notice requiring a response for this application, please submit any request for correction to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections provided that the request is grantable.

Inventor(s)

Shaunt M. Sarkissian, Reno, NV;

Applicant(s)

CORTEX MCP INC., Reno, NV

Assignment For Published Patent Application

CORTEX MCP INC., Reno, NV

Power of Attorney: None

Domestic Priority data as claimed by applicant

This application is a CON of 16/422,715 05/24/2019 PAT 10749859
which is a CON of 15/887,873 02/02/2018 ABN
which is a CON of 14/982,981 12/29/2015 PAT 9954854
which is a CON of 13/794,878 03/12/2013 PAT 9251531
which claims benefit of 61/740,731 12/21/2012

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

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

Permission to Access Application via Priority Document Exchange: Yes

Permission to Access Search Results: Yes

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

If Required, Foreign Filing License Granted: 06/11/2020

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 16/893,023**

Projected Publication Date: 04/22/2021

Non-Publication Request: No

Early Publication Request: No

**** SMALL ENTITY ****

Title

FILE FORMAT AND PLATFORM FOR STORAGE AND VERIFICATION OF CREDENTIALS

Preliminary Class

726

Statement under 37 CFR 1.55 or 1.78 for AIA (First Inventor to File) Transition Applications: No

PROTECTING YOUR INVENTION OUTSIDE THE UNITED STATES

Since the rights granted by a U.S. patent extend only throughout the territory of the United States and have no effect in a foreign country, an inventor who wishes patent protection in another country must apply for a patent in a specific country or in regional patent offices. Applicants may wish to consider the filing of an international application under the Patent Cooperation Treaty (PCT). An international (PCT) application generally has the same effect as a regular national patent application in each PCT-member country. The PCT process **simplifies** the filing of patent applications on the same invention in member countries, but **does not result** in a grant of "an international patent" and does not eliminate the need of applicants to file additional documents and fees in countries where patent protection is desired.

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Applicants may wish to consult the USPTO booklet, "General Information Concerning Patents" (specifically, the section entitled "Treaties and Foreign Patents") for more information on timeframes and deadlines for filing foreign patent applications. The guide is available either by contacting the USPTO Contact Center at 800-786-9199, or it can be viewed on the USPTO website at <http://www.uspto.gov/web/offices/pac/doc/general/index.html>.

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this website includes self-help "toolkits" giving innovators guidance on how to protect intellectual property in specific countries such as China, Korea and Mexico. For questions regarding patent enforcement issues, applicants may call the U.S. Government hotline at 1-866-999-HALT (1-866-999-4258).

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Title 37, Code of Federal Regulations, 5.11 & 5.15

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: Shaunt M. Sarkissian

Confirmation No.: 1826

Application No.: 16/893,023

Group Art Unit: Unassigned

Filing Date: June 4, 2020

Examiner: Unassigned

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

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

RESPONSE TO NOTICE TO FILE MISSING PARTS OF NON-PROVISIONAL APPLICATION UNDER 37 CFR 1.53(b)

In Response to the Notice to File Missing Parts of Nonprovisional Application mailed June 15, 2020, applicant submits the following:

1. Filing Fees:

Basic Filing Fee	\$80.00
Surcharge	\$80.00
Search Fee	\$350.00
Examination Fee	\$400.00

2. Extension of Time Fee \$1580.00

The Office is hereby authorized to charge any additional fee required by this paper or credit any overpayment to the Deposit Account No. 02-1818.

Date: January 13, 2021

/Jordan A. Kwan/

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Palo Alto, CA 94304



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APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
16/893,023	06/04/2020	Shaunt M. Sarkissian	0246162.00056

CONFIRMATION NO. 1826

FORMALITIES LETTER



OC000000117702250

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

Date Mailed: 06/15/2020

NOTICE TO FILE MISSING PARTS OF NONPROVISIONAL APPLICATION

FILED UNDER 37 CFR 1.53(b)

Filing Date Granted

Items Required To Avoid Abandonment:

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

- The statutory basic filing fee is missing.
- The application search fee must be submitted.
- The application examination fee must be submitted.
- Surcharge as set forth in 37 CFR 1.16(f) must be submitted.

The surcharge is due for any one of:

- late submission of the basic filing fee, search fee, or examination fee,
- late submission of inventor's oath or declaration,
- filing an application that does not contain at least one claim on filing, or
- submission of an application filed by reference to a previously filed application.

SUMMARY OF FEES DUE:

The fee(s) required within **TWO MONTHS** from the date of this Notice to avoid abandonment is/are itemized below. Small entity discount is in effect. If applicant is qualified for micro entity status, an acceptable Certification of Micro Entity Status must be submitted to establish micro entity status. (See 37 CFR 1.29 and forms PTO/SB/15A and 15B.)

- \$ 75 basic filing fee.
- \$ 80 surcharge.
- \$ 330 search fee.
- \$ 380 examination fee.
- \$(0) previous unapplied payment amount.
- \$ 865 TOTAL FEE BALANCE DUE.

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

Replies should be mailed to:

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Alexandria VA 22313-1450

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<https://sportal.uspto.gov/authenticate/AuthenticateUserLocalEPF.html>

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/sgorems/

Electronic Patent Application Fee Transmittal

Application Number:	16893023			
Filing Date:	04-Jun-2020			
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:	0246162.00056			
Filed as Small Entity				
Filing Fees for Utility under 35 USC 111(a)				
Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Basic Filing:				
UTILITY FILING FEE (ELECTRONIC FILING)	4011	1	80	80
UTILITY SEARCH FEE	2111	1	350	350
UTILITY EXAMINATION FEE	2311	1	400	400
Pages:				
Claims:				
Miscellaneous-Filing:				
LATE FILING FEE FOR OATH OR DECLARATION	2051	1	80	80
Petition:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				
Extension - 5 months with \$0 paid	2255	1	1580	1580
Miscellaneous:				
Total in USD (\$)				2490

Electronic Acknowledgement Receipt

EFS ID:	41639568
Application Number:	16893023
International Application Number:	
Confirmation Number:	1826
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:	0246162.00056
Receipt Date:	13-JAN-2021
Filing Date:	04-JUN-2020
Time Stamp:	19:37:17
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	DA
Payment was successfully received in RAM	\$ 2490
RAM confirmation Number	E20211CJ37411806
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	Applicant Response to Pre-Exam Formalities Notice	0246162_00056_Response_Missing_Parts.pdf	18257	no	1
			139031be36f4288a7b273236d1aa3c015033be28		
Warnings:					
Information:					
2	Miscellaneous Incoming Letter	0246162_00056_Notice.pdf	135758	no	2
			f7b4ff15b6b1b9305ab585e7aca365a5000cb92a		
Warnings:					
Information:					
3	Fee Worksheet (SB06)	fee-info.pdf	39490	no	2
			81a4aec1940aab6c5ec45c4ca4adaaed23ed0e2e		
Warnings:					
Information:					
Total Files Size (in bytes):			193505		
This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503. <u>New Applications Under 35 U.S.C. 111</u> If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application. <u>National Stage of an International Application under 35 U.S.C. 371</u> If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course. <u>New International Application Filed with the USPTO as a Receiving Office</u> If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.					



UNITED STATES PATENT AND TRADEMARK OFFICE

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

APPLICATION NUMBER	FILING or 371(c) DATE	GRP ART UNIT	FIL FEE REC'D	ATTY. DOCKET NO	TOT CLAIMS	IND CLAIMS
16/893,023	06/04/2020	2491	0.00	0246162.00056	19	3

CONFIRMATION NO. 1826

FILING RECEIPT

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



Date Mailed: 06/15/2020

Receipt is acknowledged of this non-provisional utility patent application. The application will be taken up for examination in due course. Applicant will be notified as to the results of the examination. Any correspondence concerning the application must include the following identification information: the U.S. APPLICATION NUMBER, FILING DATE, NAME OF FIRST INVENTOR, and TITLE OF INVENTION. Fees transmitted by check or draft are subject to collection.

Please verify the accuracy of the data presented on this receipt. If an error is noted on this Filing Receipt, please submit a written request for a corrected Filing Receipt, including a properly marked-up ADS showing the changes with strike-through for deletions and underlining for additions. If you received a "Notice to File Missing Parts" or other Notice requiring a response for this application, please submit any request for correction to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections provided that the request is grantable.

Inventor(s)

Shaunt M. Sarkissian, Reno, NV;

Applicant(s)

CORTEX MCP INC., Reno, NV

Assignment For Published Patent Application

CORTEX MCP INC., Reno, NV

Power of Attorney: None

Domestic Priority data as claimed by applicant

This application is a CON of 16/422,715 05/24/2019
which is a CON of 15/887,873 02/02/2018 ABN
which is a CON of 14/982,981 12/29/2015 PAT 9954854
which is a CON of 13/794,878 03/12/2013 PAT 9251531
which claims benefit of 61/740,731 12/21/2012

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

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

Permission to Access Application via Priority Document Exchange: Yes

Permission to Access Search Results: Yes

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

If Required, Foreign Filing License Granted: 06/11/2020

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 16/893,023**

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

Non-Publication Request: No

Early Publication Request: No

**** SMALL ENTITY ****

Title

FILE FORMAT AND PLATFORM FOR STORAGE AND VERIFICATION OF CREDENTIALS

Preliminary Class

726

Statement under 37 CFR 1.55 or 1.78 for AIA (First Inventor to File) Transition Applications: No

PROTECTING YOUR INVENTION OUTSIDE THE UNITED STATES

Since the rights granted by a U.S. patent extend only throughout the territory of the United States and have no effect in a foreign country, an inventor who wishes patent protection in another country must apply for a patent in a specific country or in regional patent offices. Applicants may wish to consider the filing of an international application under the Patent Cooperation Treaty (PCT). An international (PCT) application generally has the same effect as a regular national patent application in each PCT-member country. The PCT process **simplifies** the filing of patent applications on the same invention in member countries, but **does not result** in a grant of "an international patent" and does not eliminate the need of applicants to file additional documents and fees in countries where patent protection is desired.

Almost every country has its own patent law, and a person desiring a patent in a particular country must make an application for patent in that country in accordance with its particular laws. Since the laws of many countries differ in various respects from the patent law of the United States, applicants are advised to seek guidance from specific foreign countries to ensure that patent rights are not lost prematurely.

Applicants also are advised that in the case of inventions made in the United States, the Director of the USPTO must issue a license before applicants can apply for a patent in a foreign country. The filing of a U.S. patent application serves as a request for a foreign filing license. The application's filing receipt contains further information and guidance as to the status of applicant's license for foreign filing.

Applicants may wish to consult the USPTO booklet, "General Information Concerning Patents" (specifically, the section entitled "Treaties and Foreign Patents") for more information on timeframes and deadlines for filing foreign patent applications. The guide is available either by contacting the USPTO Contact Center at 800-786-9199, or it can be viewed on the USPTO website at <http://www.uspto.gov/web/offices/pac/doc/general/index.html>.

For information on preventing theft of your intellectual property (patents, trademarks and copyrights), you may wish to consult the U.S. Government website, <http://www.stopfakes.gov>. Part of a Department of Commerce initiative,

this website includes self-help "toolkits" giving innovators guidance on how to protect intellectual property in specific countries such as China, Korea and Mexico. For questions regarding patent enforcement issues, applicants may call the U.S. Government hotline at 1-866-999-HALT (1-866-999-4258).

LICENSE FOR FOREIGN FILING UNDER
Title 35, United States Code, Section 184
Title 37, Code of Federal Regulations, 5.11 & 5.15

GRANTED

The applicant has been granted a license under 35 U.S.C. 184, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" followed by a date appears on this form. Such licenses are issued in all applications where the conditions for issuance of a license have been met, regardless of whether or not a license may be required as set forth in 37 CFR 5.15. The scope and limitations of this license are set forth in 37 CFR 5.15(a) unless an earlier license has been issued under 37 CFR 5.15(b). The license is subject to revocation upon written notification. The date indicated is the effective date of the license, unless an earlier license of similar scope has been granted under 37 CFR 5.13 or 5.14.

This license is to be retained by the licensee and may be used at any time on or after the effective date thereof unless it is revoked. This license is automatically transferred to any related applications(s) filed under 37 CFR 1.53(d). This license is not retroactive.

The grant of a license does not in any way lessen the responsibility of a licensee for the security of the subject matter as imposed by any Government contract or the provisions of existing laws relating to espionage and the national security or the export of technical data. Licensees should apprise themselves of current regulations especially with respect to certain countries, of other agencies, particularly the Office of Defense Trade Controls, Department of State (with respect to Arms, Munitions and Implements of War (22 CFR 121-128)); the Bureau of Industry and Security, Department of Commerce (15 CFR parts 730-774); the Office of Foreign Assets Control, Department of Treasury (31 CFR Parts 500+) and the Department of Energy.

NOT GRANTED

No license under 35 U.S.C. 184 has been granted at this time, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" DOES NOT appear on this form. Applicant may still petition for a license under 37 CFR 5.12, if a license is desired before the expiration of 6 months from the filing date of the application. If 6 months has lapsed from the filing date of this application and the licensee has not received any indication of a secrecy order under 35 U.S.C. 181, the licensee may foreign file the application pursuant to 37 CFR 5.15(b).

SelectUSA

The United States represents the largest, most dynamic marketplace in the world and is an unparalleled location for business investment, innovation, and commercialization of new technologies. The U.S. offers tremendous resources and advantages for those who invest and manufacture goods here. Through SelectUSA, our nation works to promote and facilitate business investment. SelectUSA provides information assistance to the international investor community; serves as an ombudsman for existing and potential investors; advocates on behalf of U.S. cities, states, and regions competing for global investment; and counsels U.S. economic development organizations on investment attraction best practices. To learn more about why the United States is the best country in the world to develop

technology, manufacture products, deliver services, and grow your business, visit <http://www.SelectUSA.gov> or call +1-202-482-6800.

PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875						Application or Docket Number 16/893,023			
APPLICATION AS FILED - PART I									
(Column 1)		(Column 2)		SMALL ENTITY		OTHER THAN SMALL ENTITY			
FOR	NUMBER FILED	NUMBER EXTRA	RATE(\$)	FEE(\$)		RATE(\$)	FEE(\$)		
BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A	N/A	75		N/A			
SEARCH FEE (37 CFR 1.16(k), (l), or (m))	N/A	N/A	N/A	330		N/A			
EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A	N/A	380		N/A			
TOTAL CLAIMS (37 CFR 1.16(j))	19	minus 20 = *	x 50 =	0.00	OR				
INDEPENDENT CLAIMS (37 CFR 1.16(h))	3	minus 3 = *	x 230 =	0.00					
APPLICATION SIZE FEE (37 CFR 1.16(s))	If the specification and drawings exceed 100 sheets of paper, the application size fee due is \$310 (\$155 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).			0.00					
MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))				0.00					
			TOTAL	785		TOTAL			
* If the difference in column 1 is less than zero, enter "0" in column 2.									
APPLICATION AS AMENDED - PART II									
(Column 1)		(Column 2)		(Column 3)		SMALL ENTITY		OTHER THAN SMALL ENTITY	
AMENDMENT A	CLAIMS REMAINING AFTER AMENDMENT	HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE(\$)	ADDITIONAL FEE(\$)		RATE(\$)	ADDITIONAL FEE(\$)	
	Total (37 CFR 1.16(i))	*	Minus **	=	x =	OR	x =		
	Independent (37 CFR 1.16(h))	*	Minus ***	=	x =	OR	x =		
	Application Size Fee (37 CFR 1.16(s))					OR			
	FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))					OR			
			TOTAL ADD'L FEE		OR	TOTAL ADD'L FEE			
(Column 1)		(Column 2)		(Column 3)		SMALL ENTITY		OTHER THAN SMALL ENTITY	
AMENDMENT B	CLAIMS REMAINING AFTER AMENDMENT	HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE(\$)	ADDITIONAL FEE(\$)		RATE(\$)	ADDITIONAL FEE(\$)	
	Total (37 CFR 1.16(i))	*	Minus **	=	x =	OR	x =		
	Independent (37 CFR 1.16(h))	*	Minus ***	=	x =	OR	x =		
	Application Size Fee (37 CFR 1.16(s))					OR			
	FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))					OR			
			TOTAL ADD'L FEE		OR	TOTAL ADD'L FEE			
* If the entry in column 1 is less than the entry in column 2, write "0" in column 3. ** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20". *** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3". The "Highest Number Previously Paid For" (Total or Independent) is the highest found in the appropriate box in column 1.									



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
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www.uspto.gov

APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
16/893,023	06/04/2020	Shaunt M. Sarkissian	0246162.00056

CONFIRMATION NO. 1826

FORMALITIES LETTER



OC000000117702250

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

Date Mailed: 06/15/2020

NOTICE TO FILE MISSING PARTS OF NONPROVISIONAL APPLICATION

FILED UNDER 37 CFR 1.53(b)

Filing Date Granted

Items Required To Avoid Abandonment:

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

- The statutory basic filing fee is missing.
- The application search fee must be submitted.
- The application examination fee must be submitted.
- Surcharge as set forth in 37 CFR 1.16(f) must be submitted.

The surcharge is due for any one of:

- late submission of the basic filing fee, search fee, or examination fee,
- late submission of inventor's oath or declaration,
- filing an application that does not contain at least one claim on filing, or
- submission of an application filed by reference to a previously filed application.

SUMMARY OF FEES DUE:

The fee(s) required within **TWO MONTHS** from the date of this Notice to avoid abandonment is/are itemized below. Small entity discount is in effect. If applicant is qualified for micro entity status, an acceptable Certification of Micro Entity Status must be submitted to establish micro entity status. (See 37 CFR 1.29 and forms PTO/SB/15A and 15B.)

- \$ 75 basic filing fee.
- \$ 80 surcharge.
- \$ 330 search fee.
- \$ 380 examination fee.
- \$(0) previous unapplied payment amount.
- \$ 865 TOTAL FEE BALANCE DUE.

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

Replies should be mailed to:

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

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

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

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

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

/sgorems/

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

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	0246162.00056
		Application Number	
Title of Invention	FILE FORMAT AND PLATFORM FOR STORAGE AND VERIFICATION OF CREDENTIALS		
The application data sheet is part of the provisional or nonprovisional application for which it is being submitted. The following form contains the bibliographic data arranged in a format specified by the United States Patent and Trademark Office as outlined in 37 CFR 1.76. This document may be completed electronically and submitted to the Office in electronic format using the Electronic Filing System (EFS) or the document may be printed and included in a paper filed application.			

Secrecy Order 37 CFR 5.2:

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

Inventor Information:

Inventor 1						
Legal Name						
Prefix	Given Name	Middle Name	Family Name	Suffix		
	Shaunt	M.	Sarkissian			
Residence Information (Select One) ☒ US Residency ☐ Non US Residency ☐ Active US Military Service						
City	Reno	State/Province	NV	Country of Residence	US	
Mailing Address of Inventor:						
Address 1	6170 Sierra Mesa Dr.					
Address 2						
City	Reno	State/Province	NV			
Postal Code	89511	Country	US			
All Inventors Must Be Listed - Additional Inventor Information blocks may be generated within this form by selecting the Add button.						

Correspondence Information:

Enter either Customer Number or complete the Correspondence Information section below. For further information see 37 CFR 1.33(a).	
☐ An Address is being provided for the correspondence information of this application.	
Customer Number	26285
Email Address	

Application Information:

Title of the Invention	FILE FORMAT AND PLATFORM FOR STORAGE AND VERIFICATION OF CREDENTIALS		
Attorney Docket Number	0246162.00056	Small Entity Status Claimed	☒
Application Type	Nonprovisional		
Subject Matter	Utility		
Total Number of Drawing Sheets (if any)	12	Suggested Figure for Publication (if any)	1

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	0246162.00056
		Application Number	
Title of Invention	FILE FORMAT AND PLATFORM FOR STORAGE AND VERIFICATION OF CREDENTIALS		

Filing By Reference:

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

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

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

Publication Information:

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

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

Representative Information:

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

Please Select One:	☒ Customer Number	☐ US Patent Practitioner	☐ Limited Recognition (37 CFR 11.9)
Customer Number	26285		

Domestic Benefit/National Stage Information:

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

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

Prior Application Status	Pending	Remove	
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
	Continuation of	16422715	2019-05-24

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	0246162.00056
		Application Number	
Title of Invention	FILE FORMAT AND PLATFORM FOR STORAGE AND VERIFICATION OF CREDENTIALS		

Prior Application Status	Abandoned				Remove
Application Number	Continuity Type		Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)	
16422715	Continuation of		15887873	2018-02-02	
Prior Application Status	Patented				Remove
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)	Patent Number	Issue Date (YYYY-MM-DD)
15887873	Continuation of	14982981	2015-12-29	9954854	2018-04-24
Prior Application Status	Patented				Remove
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)	Patent Number	Issue Date (YYYY-MM-DD)
14982981	Continuation of	13794878	2013-03-12	9251531	2016-02-02
Prior Application Status	Expired				Remove
Application Number	Continuity Type		Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)	
13794878	Claims benefit of provisional		61740731	2012-12-21	
Additional Domestic Benefit/National Stage Data may be generated within this form by selecting the Add button.					

Foreign Priority Information:

This section allows for the applicant to claim priority to a foreign application. Providing this information in the application data sheet constitutes the claim for priority as required by 35 U.S.C. 119(b) and 37 CFR 1.55. When priority is claimed to a foreign application that is eligible for retrieval under the priority document exchange program (PDX)ⁱ the information will be used by the Office to automatically attempt retrieval pursuant to 37 CFR 1.55(i)(1) and (2). Under the PDX program, applicant bears the ultimate responsibility for ensuring that a copy of the foreign application is received by the Office from the participating foreign intellectual property office, or a certified copy of the foreign priority application is filed, within the time period specified in 37 CFR 1.55(g)(1).

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

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

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	0246162.00056
		Application Number	
Title of Invention	FILE FORMAT AND PLATFORM FOR STORAGE AND VERIFICATION OF CREDENTIALS		

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

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

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	0246162.00056
		Application Number	
Title of Invention	FILE FORMAT AND PLATFORM FOR STORAGE AND VERIFICATION OF CREDENTIALS		

Authorization or Opt-Out of Authorization to Permit Access:

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

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

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

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

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

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

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

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

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Application Data Sheet 37 CFR 1.76		Attorney Docket Number	0246162.00056
		Application Number	
Title of Invention	FILE FORMAT AND PLATFORM FOR STORAGE AND VERIFICATION OF CREDENTIALS		

Applicant Information:

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Applicant 1			
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Clear			
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If applicant is the legal representative, indicate the authority to file the patent application, the inventor is:			
Name of the Deceased or Legally Incapacitated Inventor:			
If the Applicant is an Organization check here. ☒			
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Email Address			
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Assignee Information including Non-Applicant Assignee Information:

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Application Data Sheet 37 CFR 1.76		Attorney Docket Number	0246162.00056
		Application Number	
Title of Invention	FILE FORMAT AND PLATFORM FOR STORAGE AND VERIFICATION OF CREDENTIALS		

Assignee 1

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

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

Organization Name	CORTEX MCP INC.
-------------------	-----------------

Mailing Address Information For Assignee including Non-Applicant Assignee:

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Country ⁱ	US	Postal Code	89521
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Signature	/Jordan A. Kwan/		Date (YYYY-MM-DD)	2020-06-04
First Name	Jordan A.	Last Name	Kwan	Registration Number
67954				

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Application Data Sheet 37 CFR 1.76		Attorney Docket Number	0246162.00056
		Application Number	
Title of Invention	FILE FORMAT AND PLATFORM FOR STORAGE AND VERIFICATION OF CREDENTIALS		

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

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FILE FORMAT AND PLATFORM FOR STORAGE AND VERIFICATION OF CREDENTIALS

CROSS-REFERENCE TO RELATED APPLICATION

[0001] This application is a continuation of U.S. patent application number 16/422,715, filed May 24, 2019, titled "FILE FORMAT AND PLATFORM FOR STORAGE AND VERIFICATION OF CREDENTIALS," which is a continuation of U.S. patent application number 15/887,873, filed February 2, 2018, titled "FILE FORMAT AND PLATFORM FOR STORAGE AND VERIFICATION OF CREDENTIALS," which is a continuation of U.S. patent application number 14/982,981, filed December 29, 2015, titled "FILE FORMAT AND PLATFORM FOR STORAGE AND VERIFICATION OF CREDENTIALS," which is a continuation of U.S. patent application number 13/794,878, filed March 12, 2013, titled "FILE FORMAT AND PLATFORM FOR STORAGE AND VERIFICATION OF CREDENTIALS," and claims the benefit, under 35 U.S.C. § 119(e), of United States provisional patent application number: 61/740,731, filed December 21, 2012, titled "FILE FORMAT AND PLATFORM FOR STORAGE AND VERIFICATION OF CREDENTIALS," each of which are hereby incorporated by reference in their entireties.

TECHNICAL FIELD

[0002] The present disclosure relates to electronic transactions, and more particularly to systems, methods, and apparatuses for securely storing and displaying user credentials.

BACKGROUND

[0003] The rapid growth and evolution of traditional and electronic commerce markets has resulted in a wide-spread demand for monetary payments by digital transactions. However, currently payment systems are highly fragmented and insecure, which creates a threat of data compromise and theft during the transfer and use of electronic commerce data. This threat may result in losses for corporations as well as users of such systems, and these losses factor into escalating fees and client costs.

[0004] Additionally, as more users move to a digital transaction model, the need for digital identification also increases. As fewer users carry wallets or traditional payment forms, traditional forms of ID will become less common. Current platforms are insecure and carrying digital credentials increases the risk of identity theft or fraud in transactions. What is needed is secure system for storing and displaying user credentials.

SUMMARY

[0005] 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 or more credentials comprising a status indicator. The method may further comprise determining, by the credential database, a response to the credential action based on the one or more user credentials stored in the credential database and transmitting, by the credential database, the response to a client device.

[0006] In various embodiments, a computer-implemented method for requesting an officially verifiable electronic representation is disclosed. The method may comprise generating, by a processor, a request for a credential action. The request may comprise a credential identifier. The processor may transmit the request for the credential action to a credential database and receive a response to the request for the credential action.

[0007] In various embodiments, an apparatus for generating and verifying officially verifiable electronic representations is disclosed. The apparatus may comprise a processor and a memory unit operatively coupled to the processor. The memory unit may be configured to store a plurality of instructions, wherein the instructions are configured to program the processor. The processor may be programmed to maintain a credential database. The credential database may be configured to store one or more credentials comprising a status indicator. The processor may further receive a request for a credential action and determine a response to the credential action based on the one or more user credentials stored in the credential database. The processor may be programmed to transmit the response to a client device. In various embodiments, a credential database may store the one or more credentials in an encrypted format which can only be decrypted by the apparatus. In various embodiments, the credential database may access additional information via a network to complete a verification of a credential. In various embodiments, the credential database may use additional information provided by a client, such as, for example, passwords, biometric information, client GPS location information, and/or a unique device identifiers, to complete the verification.

BRIEF DESCRIPTION OF THE FIGURES

[0008] The features of the various embodiments are set forth with particularity in the appended claims. The various embodiments, however, both as to organization and methods of operation, together with advantages thereof, may best be understood by reference to the following description, taken in conjunction with the accompanying drawings as follows:

[0009] Fig. 1 illustrates one embodiment of a virtual credential management platform.

[0010] Fig. 2 illustrates one embodiment of an Officially Verifiable Electronic Representation (OVER) File generation process.

[0011] Fig. 3 illustrates one embodiment of an OVER File verification process.

[0012] Fig. 4 illustrates one embodiment of a virtual wallet platform.

[0013] Fig. 5 illustrates one embodiment of an OVER File storage client component of the virtual wallet platform of Fig. 4.

[0014] Fig. 6 illustrates one embodiment of a credential type display of the OVER File storage client.

[0015] Fig. 7 illustrates one embodiment of a displayed OVER File credential oriented horizontally.

[0016] Fig. 8 illustrates one embodiment of a displayed OVER File credential oriented vertically.

[0017] Fig. 9 illustrates one embodiment of an OVER File generation screen.

[0018] Fig. 10 illustrates one embodiment of a information code for generation or verification of an OVER File.

[0019] Fig. 11 illustrates one embodiment of a credential presentation and verification process.

[0020] Fig. 12 illustrates one embodiment of a computing environment for implementing an OVER File management platform.

DESCRIPTION

[0021] 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 or more credentials comprising a status indicator. The credential database may further be configured to store one or more methods for accessing one or more status indicators on a network, such as, for example, via web-service or access to a second data store. The method may further comprise determining, by the credential database, a response to the credential action based on the one or more user credentials stored in the credential database and transmitting, by the credential database, the response to a client device. The method may further incorporate additional information submitted by a client, such as, for example, passwords, device identifiers, client GPS location, and/or biometric data, in

conjunction with the stored credential, to determine a response to the request for a credential action.

[0022] In various embodiments, a computer-implemented method for requesting an officially verifiable electronic representation is disclosed. The method may comprise generating, by a processor, a request for a credential action. The request may comprise a credential identifier. The request may further comprise additional information to verify the credential. The processor may transmit the request for the credential action to a credential database and receive a response to the request for the credential action. In various embodiments, the processor may incorporate additional information submitted by a client, such as, for example, passwords, device identifiers, GPS location information, and/or biometric information, to determine a response. In various embodiments, the processor may access other data stores available via a network to determine a response.

[0023] In various embodiments, an apparatus for generating and verifying officially verifiable electronic representations is disclosed. The apparatus may comprise a processor and a memory unit operatively coupled to the processor. The memory unit may be configured to store a plurality of instructions, wherein the instructions are configured to program the processor. The processor may be programmed to maintain a credential database. The credential database may be configured to store one or more credentials comprising a status indicator. The processor may access other data stores via a network. The processor may access remote functionality via a network. The processor may further receive a request for a credential action and determine a response to the credential action based on the one or more user credentials stored in the credential database. The processor may be programmed to transmit the response to a client device.

[0024] Reference will now be made in detail to several embodiments, including embodiments showing example implementations of systems and methods for generating, storing, and displaying OVER File credentials. Wherever practicable similar or like reference numbers may be used in the figures and may indicate similar or like functionality. The figures depict example embodiments of the disclosed systems and/or methods of use for purposes of illustration only. One skilled in the art will readily recognize from the following description that alternative example embodiments of the structures and methods illustrated herein may be employed without departing from the principles described herein.

[0025] In some embodiments, an Officially Verifiable Electronic Representation (OVER) File may provide a secure file format and platform for the storage and verification of key user or consumer credentials. As shown in Fig. 1, in one embodiment, an OVER File

management platform 2 may comprise three main components, an OVER File storage client 4, an OVER File third party client 6, and an OVER File generation and authorization engine 8. The OVER File storage client 4 may be executed by a user device to store generated OVER Files representative of the user's credentials. The OVER File storage client 4 may be included as part of a virtual wallet platform or may comprise a stand-alone user application. The OVER File storage client 4 may initiate generation of new OVER Files and may comprise a display function for displaying stored user credentials for third-party verification. The OVER File credentials may comprise any officially verifiable electronic credential, such as, for example, a government issued identification such as a driver's license, non-driver's identification card, or professional license. The OVER File credentials may also comprise privately issued credentials, such as, for example, employee identification cards, merchant loyalty cards, access cards, insurance credentials, transportation credentials, or any other credential that may be electronically verified by an issuing agency.

[0026] In some embodiments, an OVER File third party client 6 may be executed by a third party device to verify the existence and validity of OVER File credentials presented by a user. The OVER File third party client 6 may allow a third party to scan or otherwise interact with OVER File credentials displayed on a user device. The OVER File third party client 6 may contact a remote server, such as the OVER File generation and verification engine 8, for verification of the displayed user credential, as explained in more detail below. The OVER File third party client 6 may further allow a third party to request generation of an OVER File credential for delivery to an OVER File storage client 4. In some embodiments, the OVER File third party client 6 may comprise a stand alone application executed by the third party device. In other embodiments, the OVER File third party client 6 may comprise an application program interface (API) configured to provide OVER File credential verification through a third party application.

[0027] In some embodiments, an OVER File generation and authorization engine 8 may generate OVER File credentials in response to requests from an OVER File storage client 4 or an OVER File third party client 6. The OVER File credentials may be generated from data provided by a user, a third party, or an issuing agency or authority. The OVER File generation and authorization engine 8 may further provide authorization of OVER File credentials requested by third parties. The OVER File generation and authorization engine 8 may operate on a remote server. Client devices, such as the user device or the third party device, may communicate with the OVER File generation and authorization engine 8 using any suitable network or communication system. In some embodiments, the OVER File generation and

verification engine 8 may generate and maintain a status indicator for each stored OVER File credential configured to indicate whether the OVER File credential is currently valid.

[0028] Fig. 2 illustrates one embodiment of a process 100 for generating and storing an Officially Verifiable Electronic Representation (OVER) File credential. OVER File generation may be performed by the OVER File generation and verification engine 8. An engine may comprise computer program that drives the functionality of a system or process, such as, for example, the process 100 for generating and storing an OVER File credential. A user may open 102 an application for generating and/or displaying OVER Files, such as the OVER File storage client 4. In some embodiments, the application may be a stand-alone application. In other embodiments, the OVER File storage client 4 may be included in an integrated application.

[0029] A user may access 104 the OVER File credential features of an OVER File storage client to add 106 a new credential to the OVER File storage client 4. The user may be presented with a credential generation screen, such as the credential generation screen 518 shown in Fig. 7. A credential may be added manually by a user or automatically by the application. In some embodiments, a user may select 108 the method of entering the credential, for example, manual or automated entry, using the credential generation screen. In some embodiments, a user may select 110 manual entry of the credential. The user may interact with the credential generation screen to enter 112 information about the credential, such as, for example, the issuing agency, a credential identifier such as a credential identification number, or any other information associated with the credential. For example, in one embodiment, a user may choose to manually enter a credential representing a rewards card for a retailer. The user may be prompted to identify the retailer, a rewards card identification number, and a name associated with the rewards card.

[0030] In some embodiments, information for generating an OVER File credential may be automatically added to the OVER File storage client 4. For example, information necessary for the generation of an OVER File credential may be entered by scanning an information code. The information code may be represented, for example, by a quick-response (QR) Code, standard one dimensional bar code, alpha numeric bar code (for example, Type-128), and/or other suitable information codes. The information code may be represented data sent by a radio transmission or by an electronic transmission broadcast over a network. In some embodiments, a user device may scan an information code provided by an issuing agency. The information code may comprise information, such as a credential identifier, necessary for generating an OVER File and contacting an issuing agency database 130 for verification of the

credential. The information code may be provided by the issuing agency during creation of the credential and may be scanned by a user using a scan function of the user device.

[0031] In some embodiments, the information code may comprise information necessary for the generation of a credential by a third party. A user may select 114 a third-party scan option for generation and delivery of a new credential. The OVER File storage client 4 may generate a information code on the user device for scanning by the third party. The information code may comprise any necessary information for generation and delivery of the OVER File credential to the user device, such as, for example, the user's name, contact information, social security number, biometric information, location information, user-selected password, and/or a device identifier to identify the user device. The information code may be displayed 120 on the user device and may be scanned 122 by a third-party using a third-party device. The third party device may execute an application, such as the OVER File third party client 6, for scanning the information code and contacting an OVER File generation and verification engine 8. The OVER File generation and verification engine 8 may be executed by any suitable system. The OVER File generation and verification engine 8 may comprise a credential data store, such as, for example, a database, a web service, a flat file configured to store data, and/or any other suitable datastore. The credential datastore may comprise a memory unit formed integrally with the system configured to execute the OVER File generation and verification engine 8 or may comprise a remote storage device, such as, for example, a database connected to the OVER File generation and verification engine 8 through a local area network (LAN), wide area network (WAN), or Internet connection. Although the various embodiments of the OVER File generation and verification engine 8 are discussed with respect to an OVER File database, those skilled in the art will recognize that any suitable architecture and/or datastore may be employed by the OVER File generation and verification engine.

[0032] In some embodiments, an issuing agency may set one or more business rules that a user may be required to meet prior to verification of the OVER File credential by the issuing agency, such as being required to verify the user's identity prior to generation of the OVER File credential. For example, a user attempting to add a driver's license credential may be required to visit a state DMV office. After verifying the identity of the user, the DMV office may provide the user with a scannable information code for generation of an OVER File credential for the user's driver's license. The information code may comprise a credential identifier and an authorization code to enable the OVER File database 128 to generate the OVER File credential. In some embodiments, a physical credential issued by the issuing agency may contain an information code that may be scanned by the user at any time to add

the credential to the OVER File storage client 4. For example, a retailer loyalty card may comprise a scannable quick-response (QR) code that a user may scan to add an OVER File credential of the loyalty card to a user device.

[0033] After the necessary information has been entered to generate an OVER File credential, either manually or through an automated process such as scanning, the generating device may contact an application gateway 124 to deliver an OVER File generation request to an OVER File database 128. The OVER File database 128 may comprise an OVER File generation and verification engine 8. The application gateway may request 126 generation of an OVER File and verification of the generated OVER File credential. The OVER File database 128 may be configured to create a new OVER File containing the entered credential information. The OVER File database 128 may contact an issuing agency datastore, such as, for example, an issuing agency database 130, to verify the information contained in the OVER File generation request and to obtain additional credential information stored by the issuing agency database 130. Issuing agencies may comprise, for example, government entities such as States or licensing agencies, corporations issuing credentials to employees, retailers issuing loyalty or other customer identifiers, or any other suitable agency for issuing credentials. Although the various embodiments are generally described as communicating with an issuing agency database, those skilled in the art will recognize that issuing agencies may utilize any suitable datastore to store one or more credentials generated by the issuing agency.

[0034] The additional credential information may comprise any information stored by the issuing agency database but not provided in or contradictory to the OVER File generation request. For example, in one embodiment, a user may generate a credential representative of a driver's license. The user device may provide a driver's license identification number and an issuing state to the OVER File database 128 for generation of the OVER File. The OVER File database 128 may contact the issuing agency database 130, such as a state DMV database, and provide the driver's license identification number to the issuing agency database 130. The issuing agency database may respond by indicating the validity of the requested credential containing the driver's license identification number and may provide the legal name, address, and birth date of the person associated with the driver's license identification number. The issuing agency database may also provide an image of the requested credential for display on the user device. Once the information has been verified, the OVER File database 128 may generate a new OVER File containing the entered credential information. In some embodiments, the OVER file may be generated by the issuing agency database 130 and sent to

the OVER File database 128 for storage and distribution to the user device. The issuing agency may also provide a status indicator for the generated OVER File credential.

[0035] In some embodiments, the OVER File may be delivered to a device identified in the OVER File generation request for storage. For example, generated OVER File credential may be delivered to the device requesting generation of the OVER File generation, such as a user device. As another example, if a user provides a information code to a third party for scanning and generation of a credential, the information code may contain a device identifier identifying the user device as the destination for the generated OVER File credential. Copies of the OVER File credential may be stored on both a user device and in the OVER File database 128. The delivered OVER File credential may be tied to a specific user device. For example, the OVER File credential may contain a device identifier identifying the user device or application and/or the OVER File may be encrypted in a format which requires the device identifier and/or a user-provided password to decrypt. The OVER File may include a hash value which requires the device identifier and/or a user-provided password to verify. The OVER File credential may only be usable by a device matching the device or application identifier. By tying the OVER File credential to a specific device, the security of the credential is increased, as an OVER File delivered to a device other than the user device, for example through network snooping, may be prevented from working on a device other than the user device. The delivered OVER File credential may execute 134 a device check to verify the current device matches the specific device identifier. If the current device and the device identifier are the same, the OVER File credential may be stored 136 on the user device. If the specific device identifier and the current device are not the same, the OVER File credential may be inaccessible or destroyed. In some embodiments, the OVER File may require user-specific information, such as, for example, biometric information, location information, and/or passwords, to decrypt the file or to verify the OVER File credential.

[0036] Fig. 3 illustrates one embodiment of an OVER File verification process 200. A user may begin 202 the verification process by opening 204 an OVER File storage client, accessing 206 the credential features of the OVER File storage client, and selecting 208 a stored OVER File credential for display 210 on the user device. The user may select the OVER File credential from a list of credentials stored on the user device, such as, for example, the credential category screen 514 shown in Fig. 6. Credential information stored in the OVER File may be displayed on the user device. In some embodiments, the displayed information may comprise some or all of the information stored in the OVER File credential. For example, a stored OVER File credential may be displayed as shown in Figs. 18 and 19, and may comprise

one or more text fields, an image field, a title field, and a information code field. The user may present 212 the displayed credential to a third party for verification. The displayed information code may comprise a credential identifier, such as, for example, a credential identification number.

[0037] The third-party may initiate a third party verification process by opening 216 a verification application, such as the OVER File third party client 8, for verifying credentials displayed on a user device. In some embodiments, the verification application may be a stand-alone application specifically configured for verification of OVER File credentials. In other embodiments, the verification application may comprise an application capable of verification of OVER Files through an application programming interface (API). The third party may use the verification application to select a scanning option 218 to scan 220 the information code displayed on the user device. After scanning the information code, the third-party verification application may contact an application gateway 224 to provide verification of the scanned OVER File credential. The third-party verification application may transmit the information contained in the information code displayed on the user device, such as the credential identifier. For example, an information code may comprise an issuing agency identifier and a credential identifier for the displayed credential.

[0038] The application gateway 224 may communicate with a verification server 226 and an OVER File database 228. The verification server 226 may comprise the OVER File generation and verification engine 8. Although the application gateway 224, the verification server 226 and the OVER File database 228 are shown as separate systems in Fig. 2, those skilled in the art will recognize that the application gateway 224, the verification server 226 and the OVER File database 228 may be combined into a single system. The OVER File database 228 may store copies of all generated OVER File credentials. The OVER File credentials may be stored in any suitable manner, such as, for example, on a memory unit or other suitable storage device. In some embodiments, the OVER File credentials may be stored on a remote device, such as a networked database, and may be accessed by a reference stored in an OVER File datastore, such as, for example, the OVER File database. In various embodiments, the reference may comprise a hash code, a pointer, network address, and/or any other suitable reference to a remotely stored file. The OVER File database 228 may compare information received from the third-party verification application, such as, for example, a credential identifier, with the OVER File credentials stored in the OVER File database 228. A status indicator providing the validity of the OVER File credential may be sent to the OVER File third party client. If the OVER File database determines 230 that the credentials are valid, the

verification server 226 may provide a valid status indicator to the third party device. The verification server 226 may further provide a portion of the stored OVER File credential, such as a credential image, to the third party device. In some embodiments, the status indicator and a portion of the stored OVER File credential may be displayed on the third-party device. If the OVER File verification server 226 determines 230 that the credentials are invalid, the OVER File verification server 226 may transmit a status indicator indicating an invalid credential and may provide the reason for the invalid status indicator to the third party device.

[0039] The OVER File database 228 may be in communication with one or more issuing agency databases 230. The issuing agency database 230 may be maintained by an issuing agency authorized to issue one or more credentials. For example, a state Department of Motor Vehicles may maintain a database comprising all driver's licenses issued by the state. The OVER File database 228 may receive periodic updates from the issuing agency database 230 for the OVER File credentials stored in the OVER File database 228. The update period may depend on the type of credential, requirements of the issuing agency, frequency of verification requests, or other factors affecting the security requirements for a specific credential type. For example, the OVER File database 228 may receive updates on a daily basis for high-security credentials, such as, for example, driver's licenses. The OVER File database 228 may receive updates on a weekly basis for credentials requiring a lower security level, such as merchant loyalty cards. In some embodiments, the OVER File database 228 may contact the issuing agency database 230 to begin the update process. In some embodiments, the issuing agency database 230 may initiate the update process. The OVER File database 228 may be updated for individual OVER File credentials or may receive a batch update from an issuing agency for all OVER File credentials issued by the issuing agency.

[0040] A status indicator may be sent to the third party device to indicate the validity status of an OVER File credential matching the credential identifier associated with the OVER File credential displayed on the user device. The status indicator may comprise a valid indicator if the verification server 226 determines that a valid OVER File credential matching the credential identifier received from the third party verification application is stored in the OVER File database 228 and the OVER File database 228 indicates that the OVER File credential is currently valid. The verification server 226 may provide a response 232 to the third party device comprising the status indicator indicating a valid credential and may provide a portion of the credential information stored in the OVER File database 228. For example, in response to a verification request for an OVER File credential of a driver's license, the verification server 226 may provide a valid status indicator and may provide an image of the driver's license to the third

party device. As another example, in response to the same request, the verification server 226 may provide a valid status indicator, an image of the credential holder provided by the issuing agency, and the birth date of the credential holder. Those skilled in the art will recognize that the response to the verification request may be customized based on each type of credential and by each issuing agency.

[0041] In some embodiments, the verification server 226 may determine 222 that a requested credential is invalid. For example, the credential verification request may be considered invalid if an OVER File credential matching the provided credential identifier was not located in the OVER File database 228. In another embodiment, an OVER File credential matching the provided credential identifier may be stored in the OVER File database 228 but may be expired. In another embodiment, an OVER File credential matching the provided credential identifier may be stored in the OVER File database but may not match a provided device identifier, provided biometric data, and/or a provided password. The verification server 226 may provide a status indicator indicating an invalid credential. The invalid status indicator may indicate why 234 the credential is considered invalid. For example, an invalid status indicator may indicate 236 an expired credential and may display 238 a response on the third-party device that the requested credential exists but has expired. As another example, the invalid status indicator may indicate 240 that the requested credential does not exist. An invalid status indicator may be displayed 242 on the third party device stating that there is no data available for the requested OVER File. As another example, additional information submitted by the client, such as, for example, a password, biometric information, and/or location information, may not match information stored with the credential.

[0042] Fig. 4 illustrates one embodiment of a virtual wallet platform 300. The virtual wallet platform may provide an electronic platform for payment and credential storage. The virtual wallet platform 300 may provide electronic replacement for credit cards, cash, identification, or other cards traditionally carried in a wallet. In some embodiments, the virtual wallet platform may provide a Reducing Currency Denomination (RCD) payment platform and an OVER File credential storage client 4. Fig. 4 shows a logon screen for a virtual wallet platform 300. In some embodiments, the virtual wallet platform 300 may require a username 304 and a password 306 be provided prior to accessing the RCD payment platform or the OVER File credential platform. After entering a username 304 and password 306, a user may submit the username 304 and password 306 for verification using a send button 308. The username 304 and password 306 may be verified by a local processor and memory or may be sent to a remote server for verification. The logon screen may comprise a logo 302 of the virtual

wallet platform 300. An RCD payment platform is described in more detail in U.S. Patent Application No. 11/851,215, entitled "SYSTEMS, METHODS, AND APPARATUSES FOR SECURE DIGITAL TRANSACTIONS," which is hereby incorporated by reference in its entirety.

[0043] Fig. 5 illustrates one embodiment of an Officially Verifiable Electronic Representation (OVER) File storage client 500. The OVER File storage client 500 may provide storage and retrieval of one or more OVER File credentials associated with a user device. Fig. 5 illustrates one embodiment of an OVER File storage client 500 home screen 502. The home screen 502 may provide access to one or more OVER File credentials stored by the OVER File storage client 500 as part of the virtual wallet platform 300. A primary ID 506 may be displayed on the home screen 502 to allow quick and convenient access to the primary ID 506. The primary ID 506 may be selectable by the user, and may comprise, for example, a government issued driver's license or an employer issued employee ID. In some embodiments, the primary ID 506 may be accessible from any screen of the OVER File storage client 500, for example, through a predetermined user gesture, such as swiping the top of the screen down.

[0044] The home screen 502 may further provide one or more credential buttons 508a-508f for accessing a specific category of credentials, such as, for example, insurance credentials 508a, access credentials 508b, electronic coupons 508c, loyalty card credentials 508d, transportation credentials 508e, or miscellaneous credentials 508f. The user credentials may displayed in a wallet card design 504. A user may select one of the credential buttons 508a-508f to access OVER File credentials stored on the user device and classified in the selected category. For example, a user may select the loyalty credentials button 508d and may be presented with a list of OVER File credentials stored on the user's device that have been categorized as loyalty credentials, such as, for example, retailer loyalty cards, frequent buyer cards, retailer discount cards, or any other type of loyalty credential. The home screen 502 may further comprise a new button 510 for adding one or more new credentials and a manage button 512 for accessing a screen for managing the OVER File credentials stored on the user device.

[0045] Fig. 6 illustrates one embodiment of a credential category screen 514 configured to display stored OVER File credentials classified in the selected category. The credential category screen 514 may be accessed by selecting one of the credential buttons 508a-508f displayed on the home screen 502. The credential category screen 514 may display one or more available credentials that have been categorized in the selected category. For example, credential category screen 514 illustrates one embodiment of an insurance and automobile credential category displaying OVER File credentials 516a-516h classified as insurance or automobile credentials. For example, the OVER File credentials 516a-516h may

comprise auto insurance credentials, home insurance credentials, or medical insurance credentials. Additionally, the OVER File credentials may comprise automobile credentials, such as, for example, a registration card, inspection documents, or an automobile club member card. The OVER File credentials 516a-516h may be associated with a single category, such as the insurance category, or may be associated with multiple categories.

[0046] Fig. 7 illustrates one embodiment of a credential generation screen 518. The credential generation screen 518 may be accessed by selecting the new credential button 510 displayed on the home screen 502. The credential generation screen 518 may be configured to allow a user to request the generation of a new OVER File by an OVER File generation and verification engine 8. The credential generation screen 518 may allow a user to input information necessary for the generation of a new credential either manually or through an automated process. If a user wishes to enter the information manually, the user may enter the necessary credential information in credential fields 520-528. Necessary credential information may comprise a credential name 520, a credential category 522, an issuer type 524, an issuer 526, and a credential number 528. The credential category 522 and the issuer type 524 may be automatically set by the OVER File generation and verification engine 8 or may be manually set by the user. The credential number 528 may comprise a unique credential identifier generated by the issuing agency. The credential number 528 may be used by the OVER File generation and verification engine 8 to verify the validity of the requested credential and to obtain additional information associated with the generated OVER File credential not entered by the user. For example, a loyalty credential may have a certain number of loyalty points associated with the credential. The OVER File generation and verification engine 8 may use the credential number 528 to query the issuing agency regarding the current value of loyalty points associated with the credential. After entering the required credential information, a user may transmit the input information for the generation of a new OVER File credential to the OVER File generation and verification engine 8. The user may transmit the information using the add button 532.

[0047] In some embodiments, the credential generation screen 518 may allow a user to automatically enter a credential by scanning an information code, such as a barcode or quick response (QR) code. A user may access the scanning functionality by selecting the scan to add button 530. After selecting the scan to add button 530, the scanning function of a user device may be activated to allow the user to scan an information code provided by an issuing agency. The information code may comprise the information necessary for the OVER File server to contact an issuing agency database to verify the scanned credential and to obtain additional credential information. For example, in one embodiment, a user may wish to add a driver's

license to the stored OVER File credentials on the user device. The user may be required to go to a state department of motor vehicle (DMV) location to verify the user's identity. After verifying the user's identity, the DMV may generate an information code for the user to scan containing the user's driver's license identification number and an authorization number.

[0048] Once the necessary information has been entered, either manually or automatically, the OVER File storage client 500 may contact the OVER File generation and verification engine 8 to generate the requested OVER File credential. The OVER File generation and verification engine 8 may contact the issuing agency database to verify the credential using the provided information as discussed above with respect to Fig. 2. The issuing agency database may provide additional information associated with the requested credential and not provided during the initial entry of the credential information. For example, a user request to add a driver's license may comprise a driver's license identification number. The issuing agency database may provide additional information such as the user's photo, address information, age information, or license class information. The use of an information code for adding a user credential provides convenience and security, as the user does not have to manually enter the credential information and an issuing agency can control the generation of OVER Files associated with the issuing agency's credentials.

[0049] In some embodiments, a user may present a stored OVER File credential to a third party for verification. For example, a user may wish to gain access to an age restricted location or purchase an age restricted product. A third party may require a user to present identification to verify the user's age prior to allowing the user access to the age restricted location or product. A user may choose to present a stored OVER File containing the user's age information, such as, for example, an OVER File credential representative of the user's driver's license. A third party may be required to verify the validity of the presented credential. The OVER File storage client 500 may generate a scannable information code for scanning by the third party to provide verification of the credential, as described in more detail above. In another embodiment, the OVER File storage client may generate an information code in the form of a networked or radio transmission, such as, for example, a Near Field Communication (NFC) or Bluetooth, or in the form of sensor information, such as, for example, a bump. A credential code screen 536 may be generated on the user device. The credential code screen 536 may comprise a scannable information code 538 representative of the selected OVER File credential. The third party may scan the information code 538 using an OVER File third party client 6. The OVER File third party client 6 may use the information contained in the information code 538 to contact an OVER File generation and verification engine 8 to verify the validity of

the presented OVER File credential. In some embodiments, the information code 538 may be presented on the user device for a predetermined period of time at which point the user device may revert to a previously displayed screen, such as the credential category screen 514. In some embodiments, the user may be able to revert to the previous screen by pressing a back button 534.

[0050] When presenting a credential to a third party for verification, the OVER File storage client 500 may display a scannable information code, as described above. In some embodiments, a portion of the stored OVER File may be displayed on the user device for presentation to the third party. Fig. 9 illustrates one embodiment of a credential display 600. The credential display 600 may be configured to display a selected OVER File credential on a user device. The credential display 600 may be standardized, such that each stored OVER File credential utilizes the same fields in a similar manner. In some embodiments, the credential display may be standardized based on the category in which the OVER File credential is stored. For example, a first standardized display may be used for all insurance credentials and a second standardized display may be used for all loyalty credentials. A credential title field 602 may display the name of the displayed credential. The credential name may be set by the issuing agency, by the user, or by the OVER File generation and verification engine 8. As shown in Fig. 9, the credential display 600 may comprise three text sections, text section A 606, text section B 608, and text section C 610. Each text section may be configured to display textual information based on the type of credential selected for presentation. For example, a user may select a driver's license as the displayed OVER File credential. Text section A 606 may be configured to display the user's name as it appears on the user's driver license. Text section B 608 may be configured to display the user's home address and birth date. Text section C 610 may be configured to display a driver's license identification number. Those skilled in the art will recognize that any suitable textual information may be displayed in any of the available text sections 606, 608, 610. In some embodiments, one or more of the text sections 606, 608, 610 may be configured to display the same information regardless of the type of credential displayed. For example, text section C 610 may be configured to always display a credential identification number associated with the credential by the issuing agency. In some embodiments, an image field 604 may be included in the credential display 600. The image field 604 may be configured to display an image selected by the issuing agency, such as, for example, an image of a physical credential which forms the basis of the OVER File credential such as a driver's license, a logo of the issuing agency such as a corporate logo for a

loyalty card, or any other image selected by the issuing agency. The image field 604 may display the selected image as a further validity check for the displayed OVER File credential.

[0051] An information code section 612 may be included in some embodiments of the credential display 600. As discussed above, an information code may be displayed by the OVER File storage client 500 for third-party verification of stored OVER File credentials. An information code, such as the information code 538 shown in Fig. 8, may be displayed with the selected OVER File credential in the information code section 612. By displaying the information code with other available credential information, the OVER File platform may facilitate easier verification, such as allowing a merchant to quickly establish whether an age restriction has been met prior to scanning the displayed information code. In addition, a third-party may ensure that the credential information received from the OVER File generation and verification engine 8 matches the OVER File credential displayed on the user device.

[0052] In some embodiments, one or more functions of the user device may be disabled when an OVER File credential is displayed on the user device. For example, a user device may be capable of taking a screenshot of the content displayed on the device screen. In order to prevent duplication of an OVER File credential outside of the OVER File management platform 2, the OVER File storage client 500 may disable the screenshot capability of the user device during the time that the OVER File credential is displayed on the user device. In some embodiments, all functions, with the exception of the display function, may be disabled for a predetermined period of time while the OVER File credential is displayed on the screen. For example, the OVER File credential may be displayed for a predetermined time period, such as 20 seconds, during which time all functions of the user device may be disabled. After the predetermined time period, the credential display 600 may revert to a previously displayed screen, such as the home screen 502, at which point the functions of the user device may be re-enabled.

[0053] Fig. 10 illustrates another embodiment of a credential display 700. The credential display 700 is similar to the credential display 600 shown in Fig. 9. The credential display 700 comprises the same fields as the credential display 600, such as the credential title 702, the image field 704, text section A 706, text section B 708, text section C 710, and information code section 712. The credential display 700 is oriented horizontally. In some embodiments, the OVER File storage client 500 may switch between the credential display 600 and the credential display 700 depending on the orientation of the user device. For example, a user may hold a user device such that the user device is horizontally oriented. The credential display 600 may be displayed to match the orientation of the user device. If a user rotates the

user device such that the user device is vertically oriented, the OVER File storage client 500 may display the credential display 700 to match the new orientation of the user device.

[0054] Fig. 11 illustrates one embodiment of a credential presentation and verification process 800. As discussed above, a user may display a selected credential on a user device 804 using the OVER File storage client 4. The displayed user credential may comprise a information code 838 and an image field 808. The image field 808 may display an image provided by the issuing agency, such as, for example, an image of a physical credential, an image of a user, or a logo of the issuing agency. The information code 806 may comprise a scannable code such as, for example, a barcode or a QR code, comprising a credential identifier. A third-party may use a third-party device 806 comprising the OVER File third party client 6 to scan the displayed information code 806. The third-party device 806 may contact the application gateway 824 to request verification of the OVER File credential identified by the credential identifier contained in the scanned information code 838. The application gateway 824 may contact the OVER File database 828 to verify the existence and validity of the requested OVER File. The OVER File database 828 may comprise the OVER File generation and verification engine 8. The OVER File database 828 may be in contact with an issuing agency database 830 to periodically update the validity and status of the OVER Files stored in the OVER File database 828. The application gateway 824 may provide a status indicator to the third-party device 804 indicating the validity of the requested credential. In one embodiment, if the status indicator indicates a valid credential, a response to the third party device 804 may comprise an image displayed in the image field 810 on the third party device 806. The displayed image may be the same image as displayed in the image field 808 of the user device 802. The third-party device may display the status indicator 812. A valid status indicator may be displayed as, for example, a checkmark indicating that the requested credential exists and is valid. In some embodiments, if the status indicator indicates an invalid credential, a response to the third party device may comprise a reason for the invalid response. The reason for the invalid response may be displayed in the image field 810. The status indicator 812 may display as, for example, an X indicating that the requested credential is invalid.

[0055] Fig. 12 illustrates one embodiment of a computing device 900 which can be used in one embodiment of the system and method for generating, storing, and displaying OVER Files and associated credentials. For the sake of clarity, the computing device 900 is shown and described here in the context of a single computing device. It is to be appreciated and understood, however, that any number of suitably configured computing devices can be

used to implement any of the described embodiments. For example, in at least some implementation, multiple communicatively linked computing devices are used. One or more of these devices can be communicatively linked in any suitable way such as via one or more networks (LANs), one or more wide area networks (WANs) or any combination thereof.

[0056] In this example, the computing device 900 comprises one or more processor circuits or processing units 902, one or more memory circuits and/or storage circuit component(s) 904 and one or more input/output (I/O) circuit devices 906. Additionally, the computing device 900 comprises a bus 908 that allows the various circuit components and devices to communicate with one another. The bus 908 represents one or more of any of several types of bus structures, including a memory bus or local bus using any of a variety of bus architectures. The bus 908 may comprise wired and/or wireless buses.

[0057] The processing unit 902 may be responsible for executing various software programs such as system programs, applications programs, and /or module to provide computing and processing operations for the computing device 900. The processing unit 902 may be responsible for performing various voice and data communications operations for the computing device 900 such as transmitting and receiving voice and data information over one or more wired or wireless communication channels. Although the processing unit 902 of the computing device 900 includes single processor architecture as shown, it may be appreciated that the computing device 900 may use any suitable processor architecture and/or any suitable number of processors in accordance with the described embodiments. In one embodiment, the processing unit 900 may be implemented using a single integrated processor.

[0058] The processing unit 902 may be implemented as a host central processing unit (CPU) using any suitable processor circuit or logic device (circuit), such as a as a general-purpose processor. The processing unit 902 also may be implemented as a chip multiprocessor (CMP), dedicated processor, embedded processor, media processor, input/output (I/O) processor, co-processor, microprocessor, controller, microcontroller, application specific integrated circuit (ASIC), field programmable gate array (FPGA), programmable logic device (PLD), or other processing device in accordance with the described embodiments.

[0059] As shown, the processing unit 902 may be coupled to the memory and/or storage component(s) 904 through the bus 908. The memory bus 908 may comprise any suitable interface and/or bus architecture for allowing the processing unit 902 to access the memory and/or storage component(s) 904. Although the memory and/or storage component(s) 904 may be shown as being separate from the processing unit 902 for purposes of illustration, it is worthy to note that in various embodiments some portion or the entire memory and/or storage

component(s) 904 may be included on the same integrated circuit as the processing unit 902. Alternatively, some portion or the entire memory and/or storage component(s) 904 may be disposed on an integrated circuit or other medium (e.g., hard disk drive) external to the integrated circuit of the processing unit 902. In various embodiments, the computing device 900 may comprise an expansion slot to support a multimedia and/or memory card, for example.

[0060] The memory and/or storage component(s) 904 represent one or more computer-readable media. The memory and/or storage component(s) 904 may be implemented using any computer-readable media capable of storing data such as volatile or non-volatile memory, removable or non-removable memory, erasable or non-erasable memory, writeable or re-writeable memory, and so forth. The memory and/or storage component(s) 904 may comprise volatile media (e.g., random access memory (RAM)) and/or nonvolatile media (e.g., read only memory (ROM), Flash memory, optical disks, magnetic disks and the like). The memory and/or storage component(s) 904 may comprise fixed media (e.g., RAM, ROM, a fixed hard drive, etc.) as well as removable media (e.g., a Flash memory drive, a removable hard drive, an optical disk, etc.). Examples of computer-readable storage media may include, without limitation, RAM, dynamic RAM (DRAM), Double-Data-Rate DRAM (DDRAM), synchronous DRAM (SDRAM), static RAM (SRAM), read-only memory (ROM), programmable ROM (PROM), erasable programmable ROM (EPROM), electrically erasable programmable ROM (EEPROM), flash memory (e.g., NOR or NAND flash memory), content addressable memory (CAM), polymer memory (e.g., ferroelectric polymer memory), phase-change memory, ovonic memory, ferroelectric memory, silicon-oxide-nitride-oxide-silicon (SONOS) memory, magnetic or optical cards, or any other type of media suitable for storing information.

[0061] The one or more I/O devices 906 allow a user to enter commands and information to the computing device 900, and also allow information to be presented to the user and/or other components or devices. Examples of input devices include a keyboard, a cursor control device (e.g., a mouse), a microphone, a scanner, biometric sensors, and the like. Examples of output devices include a display device (e.g., a monitor or projector, speakers, a printer, a network card, etc.). The computing device 900 may comprise an alphanumeric keypad coupled to the processing unit 902. The keypad may comprise, for example, a QWERTY key layout and an integrated number dial pad. The computing device 900 may comprise a display coupled to the processing unit 902. The display may comprise any suitable visual interface for displaying content to a user of the computing device 4000. In one embodiment, for example, the display may be implemented by a liquid crystal display (LCD)

such as a touch-sensitive color (e.g., 76-bit color) thin-film transistor (TFT) LCD screen. The touch-sensitive LCD may be used with a stylus and/or a handwriting recognizer program.

[0062] The processing unit 902 may be arranged to provide processing or computing resources to the computing device 900. For example, the processing unit 902 may be responsible for executing various software programs including system programs such as operating system (OS) and application programs. System programs generally may assist in the running of the computing device 900 and may be directly responsible for controlling, integrating, and managing the individual hardware components of the computer system. The OS may be implemented, for example, as a Microsoft® Windows OS, Symbian OSTM, Embedix OS, Linux OS, Binary Run-time Environment for Wireless (BREW) OS, JavaOS, Android OS, Apple OS or other suitable OS in accordance with the described embodiments. The computing device 900 may comprise other system programs such as device drivers, programming tools, utility programs, software libraries, application programming interfaces (APIs), and so forth.

[0063] The computer 900 also includes a network interface 910 coupled to the bus 908. The network interface 910 provides a two-way data communication coupling to a local network 912. For example, the network interface 910 may be a digital subscriber line (DSL) modem, satellite dish, an integrated services digital network (ISDN) card or other data communication connection to a corresponding type of telephone line. As another example, the communication interface 910 may be a local area network (LAN) card effecting a data communication connection to a compatible LAN. Wireless communication means such as internal or external wireless modems may also be implemented.

[0064] In any such implementation, the network interface 910 sends and receives electrical, electromagnetic or optical signals that carry digital data streams representing various types of information, such as the selection of goods to be purchased, the information for payment of the purchase, or the address for delivery of the goods. The network interface 910 typically provides data communication through one or more networks to other data devices. For example, the network interface 910 may effect a connection through the local network to an Internet Host Provider (ISP) or to data equipment operated by an ISP. The ISP in turn provides data communication services through the internet (or other packet-based wide area network). The local network and the internet both use electrical, electromagnetic or optical signals that carry digital data streams. The signals through the various networks and the signals on the network interface 910, which carry the digital data to and from the computer system 400, are exemplary forms of carrier waves transporting the information.

[0065] The computer 900 can send messages and receive data, including program code, through the network(s) and the network interface 910. In the Internet example, a server might transmit a requested code for an application program through the internet, the ISP, the local network (the network 912) and the network interface 910. In accordance with the invention, one such downloaded application provides for the identification and analysis of a prospect pool and analysis of marketing metrics. The received code may be executed by processor 904 as it is received, and/or stored in storage device 910, or other non-volatile storage for later execution. In this manner, computer 900 may obtain application code in the form of a carrier wave.

[0066] 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 or more credentials comprising a status indicator. The method may further comprise determining, by the credential database, a response to the credential action based on the one or more user credentials stored in the credential database and transmitting, by the credential database, the response to a client device. The credential action may comprise generating a credential. The credential may be generated when the credential database determines that no matching credential is stored in the credential database.

[0067] In some embodiments, generation of a credential may comprise requesting, by the credential database, the credential from an issuing agency database. The issuing agency database may be configured to store credentials issued by an issuing agency. The method may further comprise receiving, by the credential database, the status indicator and credential information associated with the credential transmitted by the issuing agency database and storing the credential and the status indicator in the credential database. The credential information may comprise the credential, and wherein the status indicator indicates a valid credential. The response transmitted to the user device may comprise the credential and a copy of the credential may be stored in the credential database. The credential database may generate a device identifier for the credential. The device identifier may limit the credential to the client device. The status indicator may indicate an invalid credential. When the status indicator indicates an invalid credential, the response transmitted to the user device may comprise the status indicator. In some embodiments, the validity of the credential may additionally depend upon other information submitted by the client, such as, for example, biometric, location, password, device identifiers, and/or other user-specific information.

[0068] The credential action may comprise checking a status indicator of a stored credential. The request for the credential action may comprise a credential identifier. The credential response may be determined by comparing the credential identifier with the one or more credentials stored in the credential database. When the credential identifier matches a stored credential, the response to the request for the credential action may comprises the status indicator of the stored credential and may further comprise a portion of the stored credential. When the credential identifier does not match a stored credential, the response to the request for the credential action comprises an invalid credential response.

[0069] In various embodiments, a computer-implemented method for requesting an officially verifiable electronic representation is disclosed. The method may comprise generating, a processor, a request for a credential action. The request may comprise a credential identifier. The method may further comprise transmitting, by the processor, the request for the credential action to a credential database and receiving, by the processor, a response to the request for the credential action. The request for credential action may comprise a credential generation.

[0070] In some embodiments a scanner may scan an information code comprising the credential identifier. The response to the request for the credential action may comprise a generated credential. The generated credential may comprise the credential identifier and additional credential information. The additional credential information may be obtained, for example, from the issuing agency database. The generated credential may comprise a device identifier. The device identifier may limit the generated credential to the processor. The request for the credential action may comprise a credential verification request. The response to the request for the credential action may comprise a status indicator. When the status indicator indicates a valid credential, the response to the request for the credential action may comprise a credential image. When the status indicator indicates an invalid credential, the response to the request for the credential action may comprise an invalidity response identifying a reason for the invalid credential.

[0071] In various embodiments, an apparatus for generating and verifying officially verifiable electronic representations is disclosed. The apparatus may comprise a processor and a memory unit operatively coupled to the processor. The memory unit may be configured to store a plurality of instructions, wherein the instructions are configured to program the processor. The processor may be programmed to maintain a credential database. The credential database may be configured to store one or more credentials comprising a status indicator. The credential database may be configured to store pointers to other data stores and/or services accessible via a network. The processor may further receive a request for a

credential action and determine a response to the credential action based on the one or more user credentials stored in the credential database. The processor may be programmed to transmit the response to a client device.

[0072] In some embodiments, generation of a credential may comprise generating a request for the credential from an issuing agency database. The issuing agency database may be configured to store credentials issued by an issuing agency. The processor may receive the status indicator and credential information associated with the credential transmitted by the issuing agency database and may store the credential and the status indicator in the memory unit. The credential information may comprise the credential when the status indicator indicates a valid credential. The response transmitted to the user device may comprise the credential and a copy of the credential may be stored in the memory unit. The processor may generate a device identifier for the credential. The device identifier may limit the credential to the client device. The status indicator may indicate an invalid credential. When the status indicator indicates an invalid credential, the response transmitted to the user device may comprise the status indicator.

[0073] The credential action may comprise checking a status indicator of a stored credential. The request for the credential action may comprise a credential identifier. The credential response may be determined by comparing the credential identifier with the one or more credentials stored in the memory unit. In some embodiments, the response may additionally be determined by comparing other information submitted by the client, such as, for example, location, biometric information, and/or device identifiers, with stored credentials. When the credential identifier matches a stored credential, the response to the request for the credential action may comprise the status indicator of the stored credential and may further comprise a portion of the stored credential. When the credential identifier does not match a stored credential, the response to the request for the credential action comprises an invalid credential response.

[0074] Various embodiments may be described herein in the general context of computer executable instructions, such as software, program modules, and/or engines being executed by a computer. Generally, software, program modules, and/or engines include any software element arranged to perform particular operations or implement particular abstract data types. Software, program modules, and/or engines can include routines, programs, objects, components, data structures and the like that perform particular tasks or implement particular abstract data types. An implementation of the software, program modules, and/or engines components and techniques may be stored on and/or transmitted across some form of

computer-readable media. In this regard, computer-readable media can be any available medium or media useable to store information and accessible by a computing device. Some embodiments also may be practiced in distributed computing environments where operations are performed by one or more remote processing devices that are linked through a communications network. In a distributed computing environment, software, program modules, and/or engines may be located in both local and remote computer storage media including memory storage devices.

[0075] Although some embodiments may be illustrated and described as comprising functional components, software, engines, and/or modules performing various operations, it can be appreciated that such components or modules may be implemented by one or more hardware components, software components, and/or combination thereof. The functional components, software, engines, and/or modules may be implemented, for example, by logic (e.g., instructions, data, and/or code) to be executed by a logic device (e.g., processor). Such logic may be stored internally or externally to a logic device on one or more types of computer-readable storage media. In other embodiments, the functional components such as software, engines, and/or modules may be implemented by hardware elements that may include processors, microprocessors, circuits, circuit elements (e.g., transistors, resistors, capacitors, inductors, and so forth), integrated circuits, application specific integrated circuits (ASIC), programmable logic devices (PLD), digital signal processors (DSP), field programmable gate array (FPGA), logic gates, registers, semiconductor device, chips, microchips, chip sets, and so forth.

[0076] Examples of software, engines, and/or modules may include software components, programs, applications, computer programs, application programs, system programs, machine programs, operating system software, middleware, firmware, software modules, routines, subroutines, functions, methods, procedures, software interfaces, application program interfaces (API), instruction sets, computing code, computer code, code segments, computer code segments, words, values, symbols, or any combination thereof. Determining whether an embodiment is implemented using hardware elements and/or software elements may vary in accordance with any number of factors, such as desired computational rate, power levels, heat tolerances, processing cycle budget, input data rates, output data rates, memory resources, data bus speeds and other design or performance constraints.

[0077] In some cases, various embodiments may be implemented as an article of manufacture. The article of manufacture may include a computer readable storage medium arranged to store logic, instructions and/or data for performing various operations of one or

more embodiments. In various embodiments, for example, the article of manufacture may comprise a magnetic disk, optical disk, flash memory or firmware containing computer program instructions suitable for execution by a general purpose processor or application specific processor. The embodiments, however, are not limited in this context.

[0078] The functions of the various functional elements, logical blocks, modules, and circuits elements described in connection with the embodiments disclosed herein may be implemented in the general context of computer executable instructions, such as software, control modules, logic, and/or logic modules executed by the processing unit. Generally, software, control modules, logic, and/or logic modules comprise any software element arranged to perform particular operations. Software, control modules, logic, and/or logic modules can comprise routines, programs, objects, components, data structures and the like that perform particular tasks or implement particular abstract data types. An implementation of the software, control modules, logic, and/or logic modules and techniques may be stored on and/or transmitted across some form of computer-readable media. In this regard, computer-readable media can be any available medium or media useable to store information and accessible by a computing device. Some embodiments also may be practiced in distributed computing environments where operations are performed by one or more remote processing devices that are linked through a communications network. In a distributed computing environment, software, control modules, logic, and/or logic modules may be located in both local and remote computer storage media including memory storage devices.

[0079] Additionally, it is to be appreciated that the embodiments described herein illustrate example implementations, and that the functional elements, logical blocks, modules, and circuits elements may be implemented in various other ways which are consistent with the described embodiments. Furthermore, the operations performed by such functional elements, logical blocks, modules, and circuits elements may be combined and/or separated for a given implementation and may be performed by a greater number or fewer number of components or modules. As will be apparent to those of skill in the art upon reading the present disclosure, each of the individual embodiments described and illustrated herein has discrete components and features which may be readily separated from or combined with the features of any of the other several aspects without departing from the scope of the present disclosure. Any recited method can be carried out in the order of events recited or in any other order which is logically possible.

[0080] It is worthy to note that any reference to “one embodiment” or “an embodiment” means that a particular feature, structure, or characteristic described in connection with the

embodiment is comprised in at least one embodiment. The appearances of the phrase “in one embodiment” or “in one aspect” in the specification are not necessarily all referring to the same embodiment.

[0081] Unless specifically stated otherwise, it may be appreciated that terms such as “processing,” “computing,” “calculating,” “determining,” or the like, refer to the action and/or processes of a computer or computing system, or similar electronic computing device, such as a general purpose processor, a DSP, ASIC, FPGA or other programmable logic device, discrete gate or transistor logic, discrete hardware components, or any combination thereof designed to perform the functions described herein that manipulates and/or transforms data represented as physical quantities (e.g., electronic) within registers and/or memories into other data similarly represented as physical quantities within the memories, registers or other such information storage, transmission or display devices.

[0082] It is worthy to note that some embodiments may be described using the expression “coupled” and “connected” along with their derivatives. These terms are not intended as synonyms for each other. For example, some embodiments may be described using the terms “connected” and/or “coupled” to indicate that two or more elements are in direct physical or electrical contact with each other. The term “coupled,” however, also may mean that two or more elements are not in direct contact with each other, but yet still co-operate or interact with each other. With respect to software elements, for example, the term “coupled” may refer to interfaces, message interfaces, application program interface (API), exchanging messages, and so forth.

CLAIMS

What is claimed is:

1. A computer-implemented method comprising:
 - 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;
 - 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;
 - 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;
 - transmitting, to the OVER file storage client device of the user, the OVER file in response to the OVER file generation request;
 - 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 Near Field Communication (NFC) protocol-based communication associated with the OVER file on the OVER file storage client device of the user;
 - verifying that the NFC protocol-based communication 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 NFC protocol-based communication associated with the OVER file on the OVER file storage client device of the user corresponds to the information associated with the credential of the user that is stored in the OVER engine.
2. 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, and the method further comprises:

receiving, from a second OVER file storage client device of the user, a second OVER file generation request to provide authentication of the user based on the information associated with the credential;

generating, by the processor, a 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; and

transmitting, to the second OVER file storage client device of the user, the second OVER file in response to the second OVER file generation request.

3. The computer-implemented method of claim 1, further comprising generating, by the processor of the OVER engine, the credential, wherein the credential is generated after the processor determines that no credential of the user is stored.

4. The computer-implemented method of claim 1, further comprising:
requesting, by the processor of the OVER engine to the issuing agency, an agency authentication to validate the credential, wherein the issuing agency issued the credential of the user;

receiving, by the OVER engine, a status indicator and credential information associated with the credential; and

storing, by the OVER engine, the status indicator.

5. The computer-implemented method of claim 1, further comprising generating, by the OVER engine, a device identifier for the credential, wherein the device identifier limits the credential to the OVER file storage client device.

6. The computer-implemented method of claim 1, further comprising generating, by the OVER engine, a reference to a remotely stored credential, wherein the information associated with the credential of the user comprises the reference to the remotely stored credential.

7. The computer-implemented method of claim 1, further comprising checking, by the OVER engine, a status indicator of a stored credential, wherein the OVER file generation

request comprises a credential identifier for specifying which credential among a plurality of credentials of the user is officially represented by the OVER file.

8. The computer-implemented method of claim 7, wherein the OVER file comprises a portion of the stored credential.

9. 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;
 - transmit, to the OVER file storage client device of the user, the OVER file in response to the ~~first~~ OVER file generation request;
 - receive, from an OVER file third-party client verifying device, a verifying request to verify that the OVER file transmitted to the OVER file storage client device of the user authenticates the user based on a Near Field Communication (NFC) protocol-based communication associated with the OVER file on the OVER file storage client device of the user;
 - verify that the NFC protocol-based communication associated with the OVER file corresponds with the information associated with the credential of the user, in response to the verifying request; and
 - 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.

10. The apparatus 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, and the instructions are further configured to program the processor to:

receive, from a second OVER file storage client device of the user, a second OVER file generation request to provide authentication of the user based on the information associated with the credential;

generate a 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; and

transmit, to the second OVER file storage client device of the user, the second OVER file in response to the second OVER file generation request.

11. The apparatus of claim 9, wherein the instructions further program the processor to generate the credential, wherein the credential is generated after the processor determines that no matching credential is stored.

12. The apparatus of claim 9, wherein the instructions are further configured to program the processor to:

request the credential from the issuing agency, wherein the issuing agency stores credentials issued by the issuing agency;

receive the status indicator and credential information associated with the credential transmitted by the issuing agency; and

store the credential and a status indicator.

13. The apparatus of claim 9, wherein the instructions are further configured to program the processor to generate a device identifier for the credential, wherein the device identifier limits the credential to the client device.

14. The apparatus of claim 9, wherein the instructions are further configured to program the processor to generate a reference to a remotely stored credential, wherein the information associated with the credential of the user comprises the reference to the remotely stored credential.

15. The apparatus of claim 9, wherein the instructions are further configured to program the processor to check a stored status indicator of a stored credential, wherein the status indicator comprises the stored status indicator.

16. The apparatus of claim 9, wherein the instructions are further configured to program the processor to check a status indicator of a stored credential, wherein the OVER file generation request comprises a credential identifier for specifying which credential among a plurality of credentials of the user is officially represented by the OVER file.

17. The apparatus of claim 16, wherein when the credential identifier matches the stored credential, and the authentication message comprises the status indicator of the stored credential.

18. A computer-implemented method comprising:
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;

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;

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;

transmitting, to the OVER file storage client device of the user, the OVER file in response to the OVER file generation request;

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 Bluetooth protocol-based communication associated with the OVER file on the OVER file storage client device of the user;

verifying that the Bluetooth protocol-based communication 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 Bluetooth protocol-based communication

associated with the OVER file on the OVER file storage client device of the user corresponds to the information associated with the credential of the user that is stored in the OVER engine.

19. The computer-implemented method of claim 18, 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, and the method further comprises:

receiving, from a second OVER file storage client device of the user, a second OVER file generation request to provide authentication of the user based on the information associated with the credential;

generating, by the processor, a 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; and

transmitting, to the second OVER file storage client device of the user, the second OVER file in response to the second OVER file generation request.

ABSTRACT

In various embodiments, a computer-implemented method for generating and verifying officially verifiable electronic representations may be disclosed. The method may include storing information associated with a credential of a user for proving the user's identity or qualifications; receiving a file generation request to provide authentication of the user based on the information associated with the credential; generating a file comprising a virtual representation of the credential that has been verified by an issuing agency to be an official representation of the credential; transmitting the file; receiving a verifying request whether the file transmitted to the user authenticates the user; verifying that a NFC or Bluetooth protocol-based communication associated with the file corresponds with the credential of the user, in response to the verifying request; and transmitting an authentication message indicating whether the NFC or Bluetooth protocol-based communication corresponds to the information associated with the credential of the user.

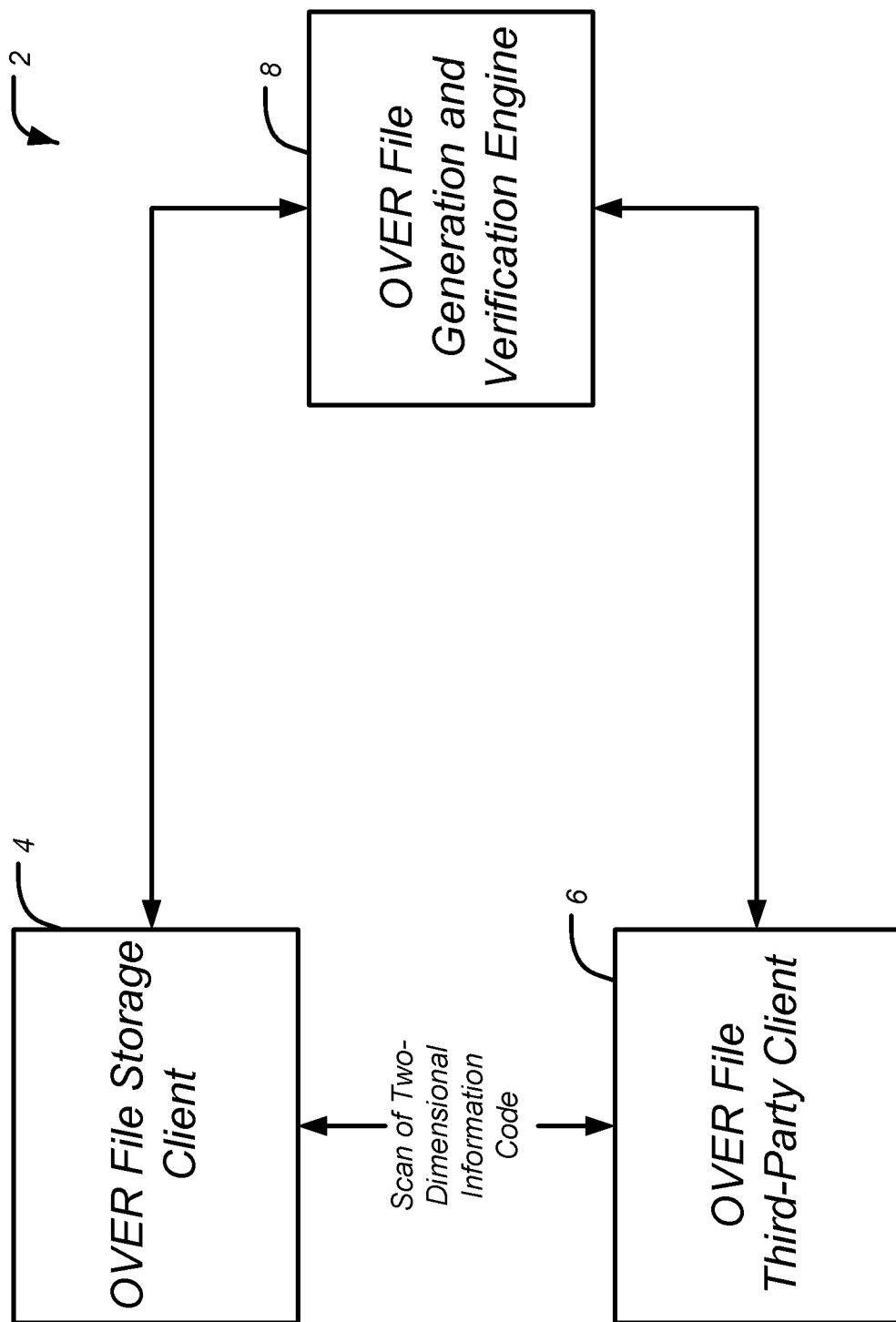


Fig. 1

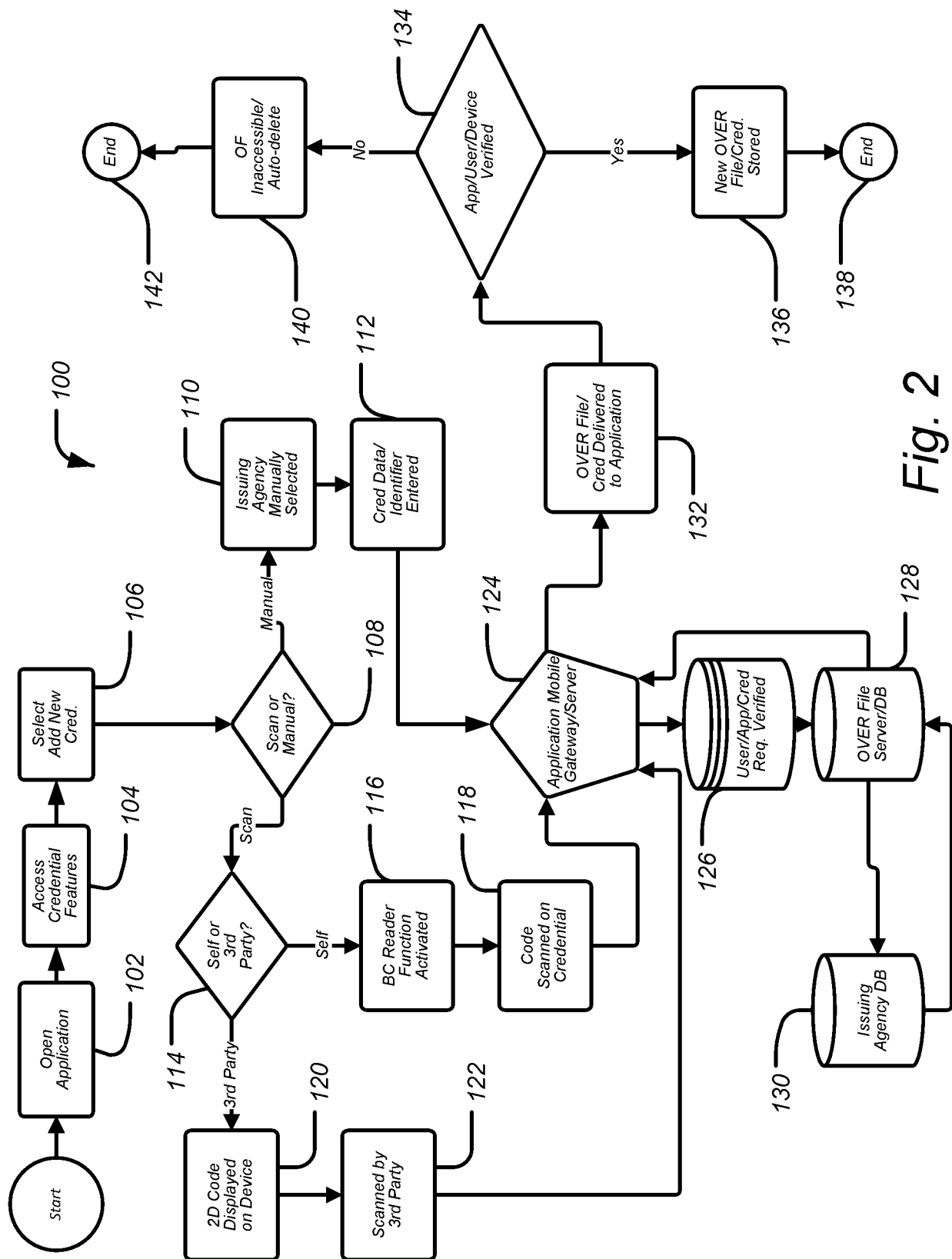


Fig. 2

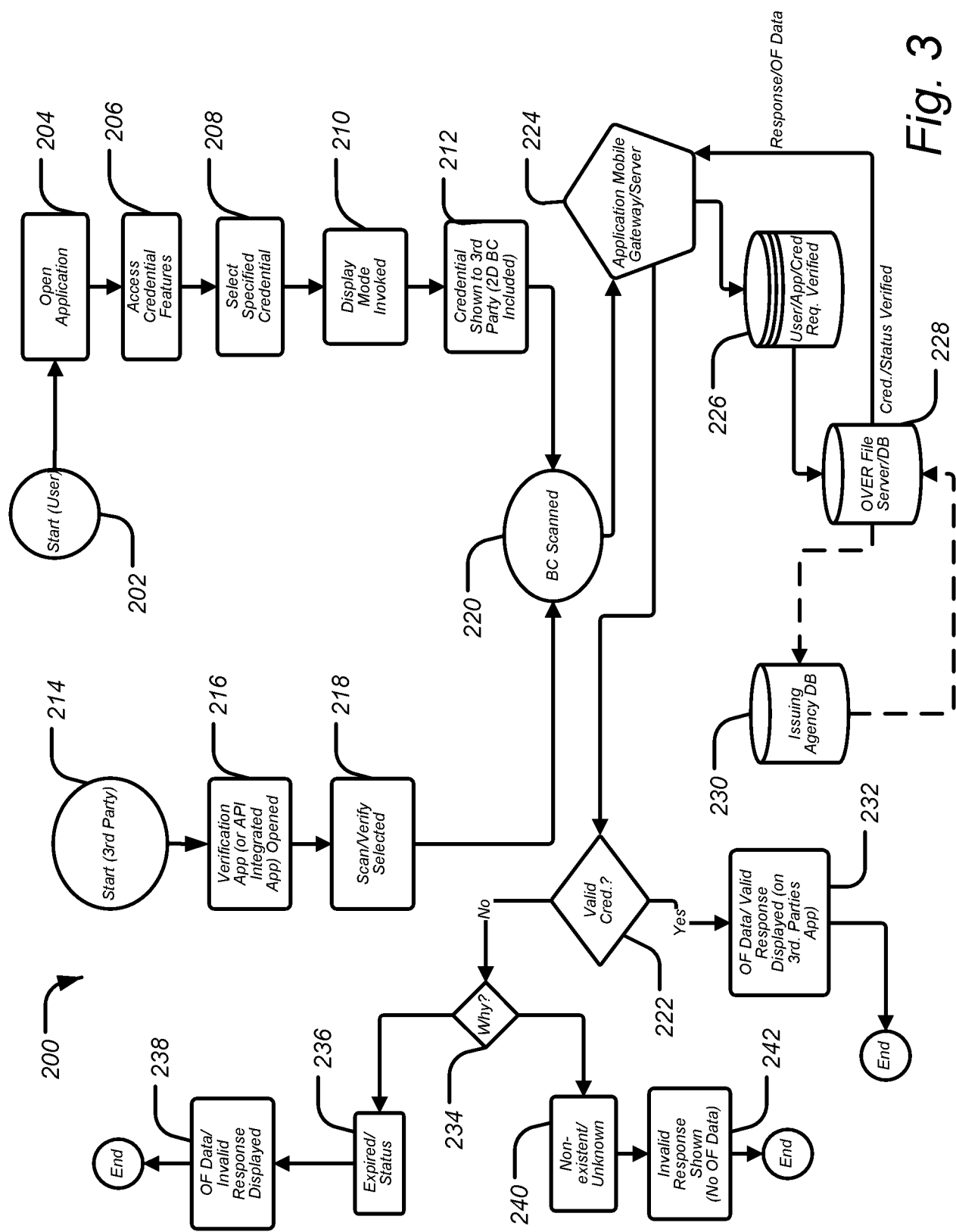


Fig. 3

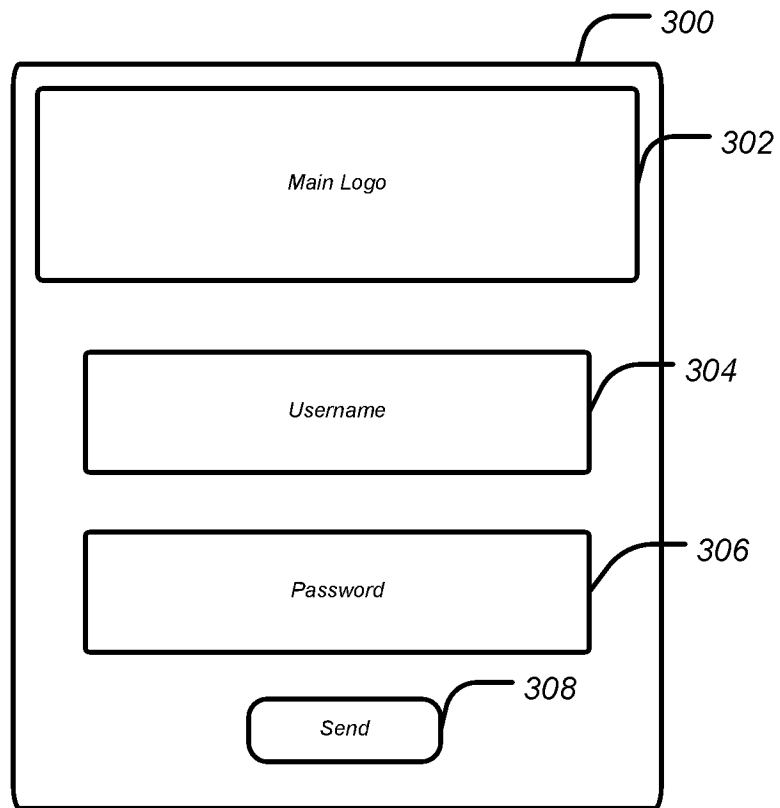


Fig. 4

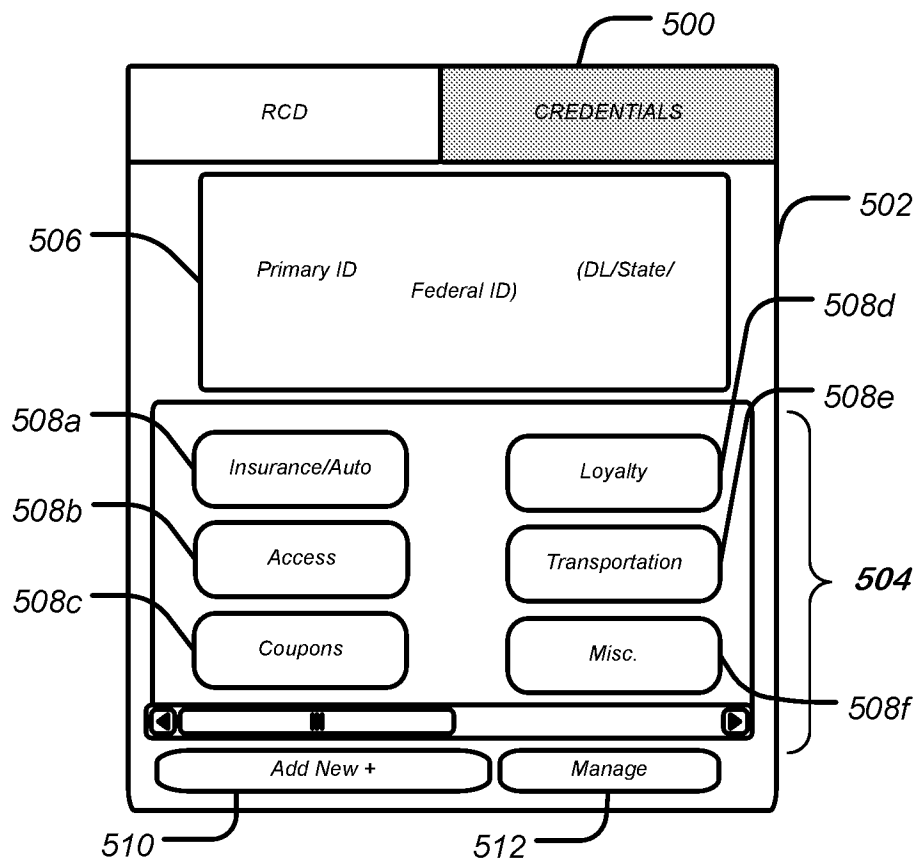


Fig. 5

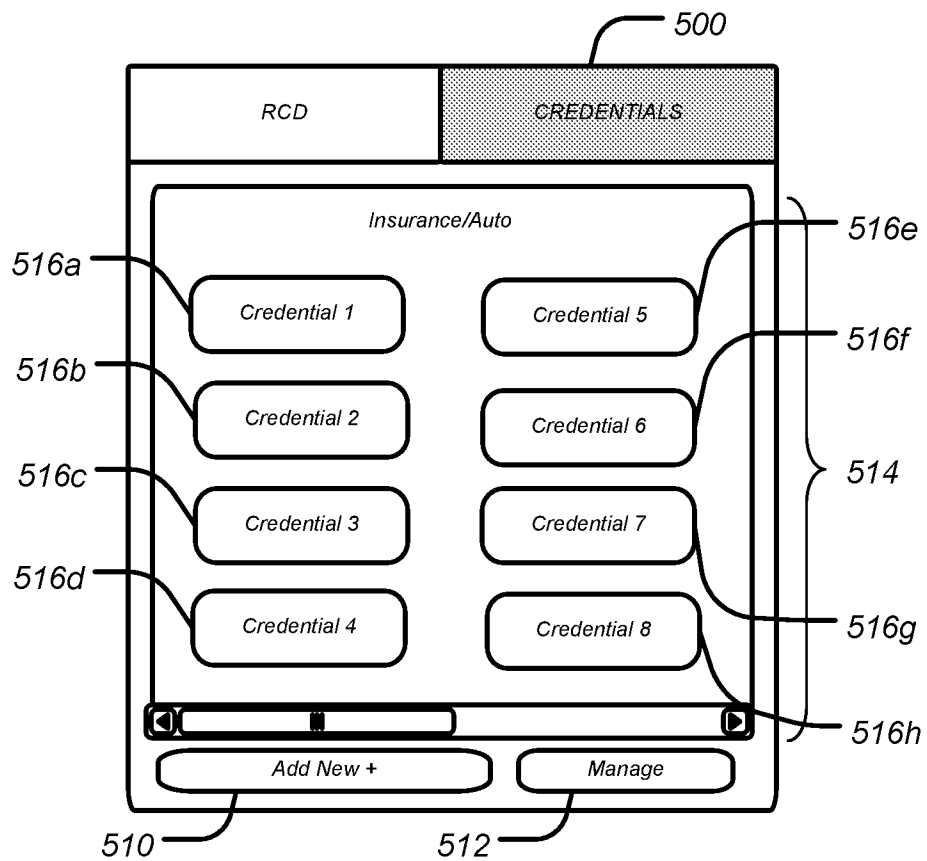


Fig. 6

500

RCD	CREDENTIALS
Credential Name	520 User Selected Name
Category	522 Automatic ▼
Issuer Type	524 Restaurant ▼
Issuer	526 Submart ▼
Credential Number	528 Text
530 Scan to Add	532 Add
	534 Back

518

Fig. 7

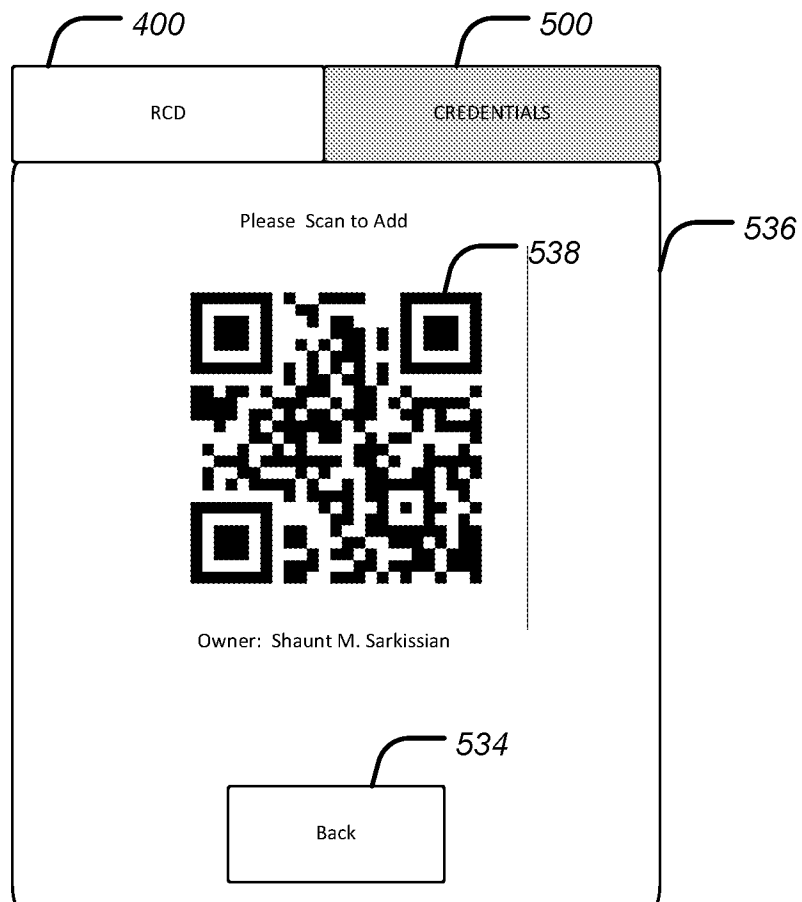


Fig. 8

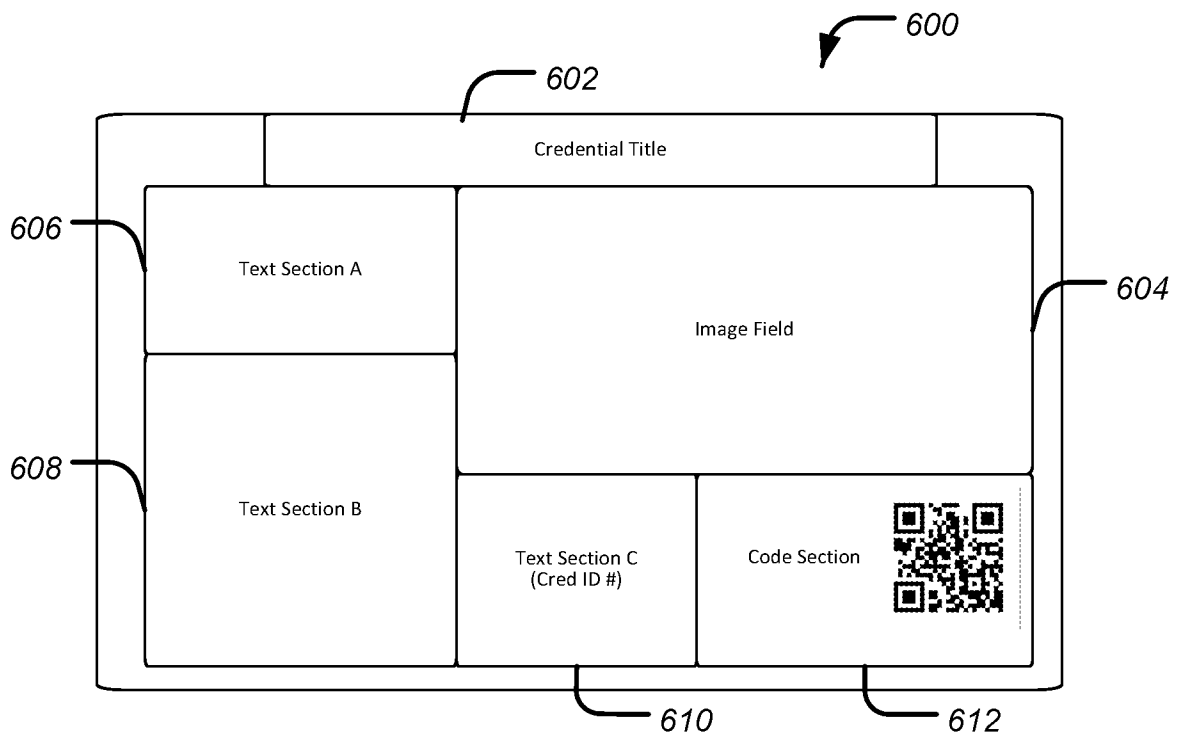


Fig. 9

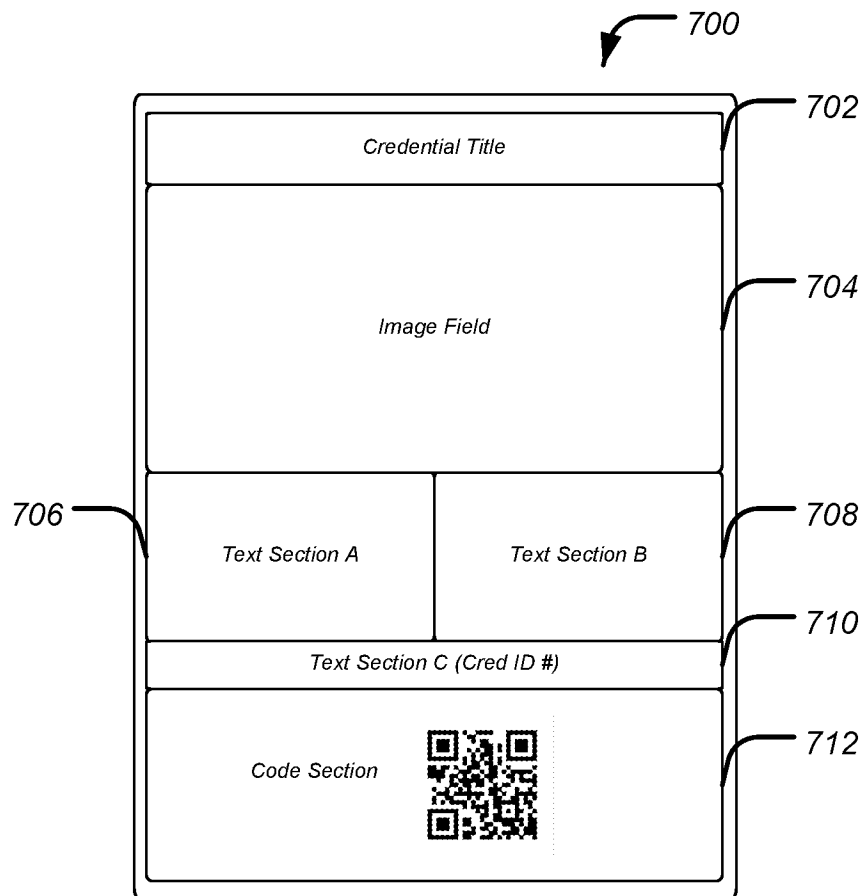


Fig. 10

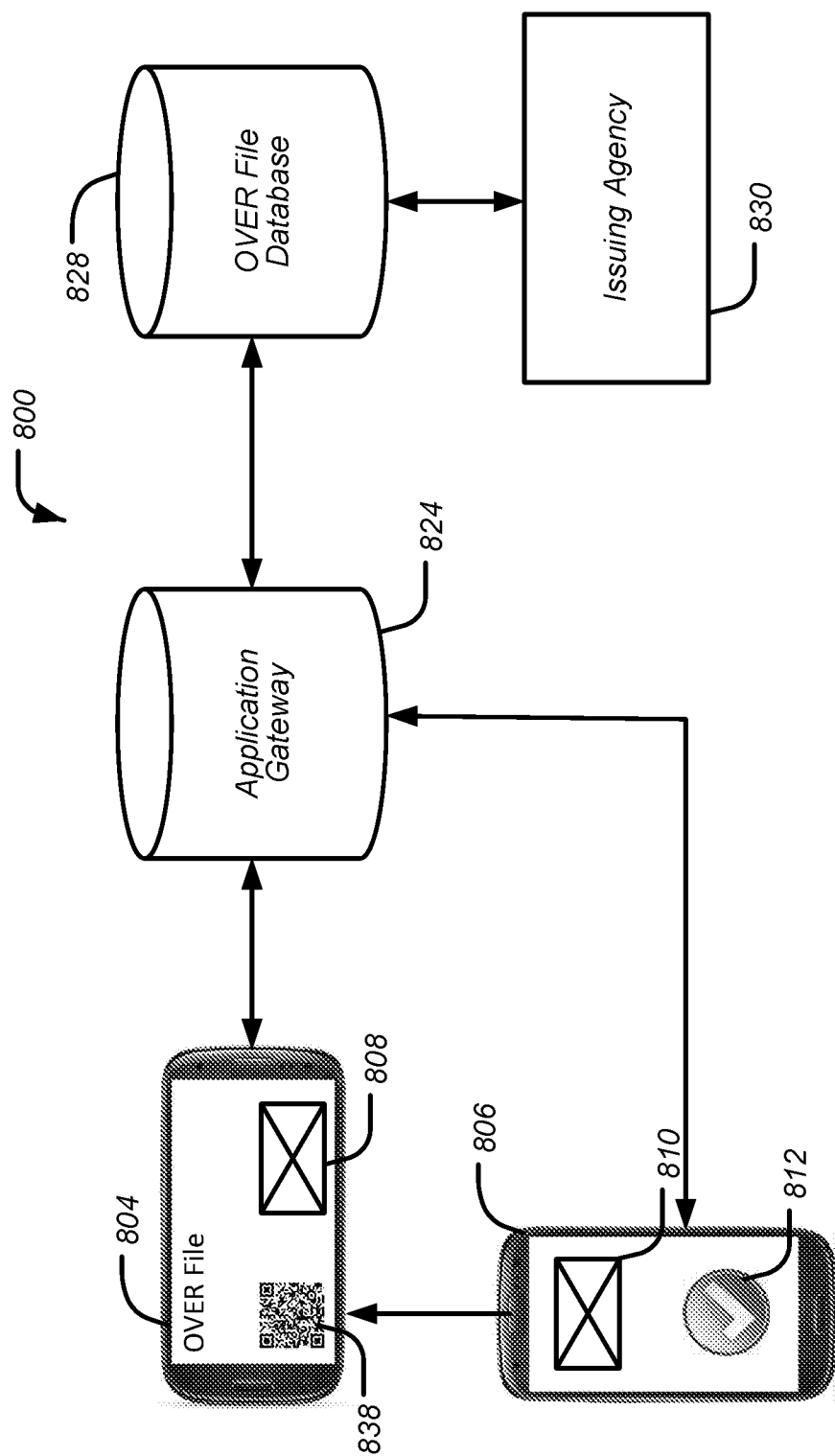


Fig. 11

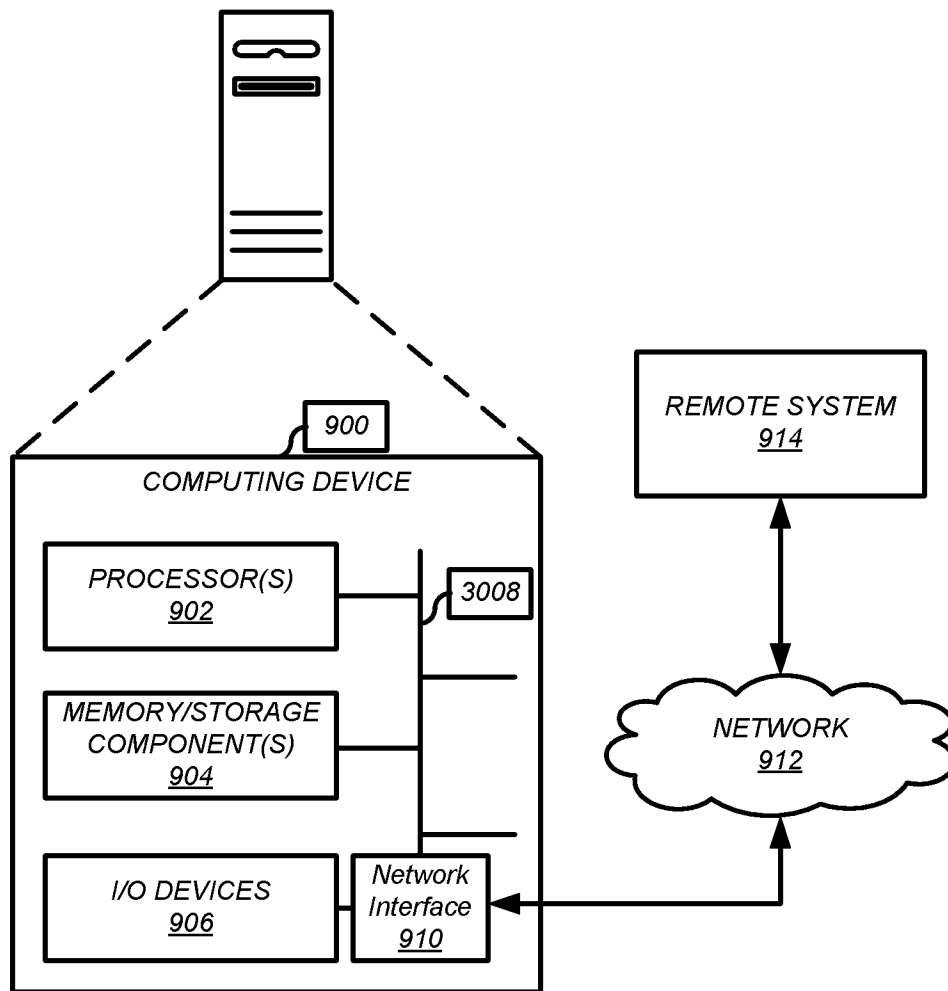


Fig. 12

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

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

Title of Invention **FILE FORMAT AND PLATFORM FOR STORAGE AND VERIFICATION OF CREDENTIALS**

As the below named inventor, I hereby declare that:

This declaration is directed to:



The attached application, or



United States application or PCT international application number _____
filed on _____.

The above-identified application was made or authorized to be made by me.

I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.

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

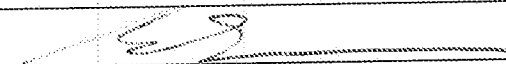
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LEGAL NAME OF INVENTOR

Inventor: **Shaunt M. Sarkissian**

Date (Optional): **12/21/15**

Signature: 

Note: An application data sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form or must have been previously filed. Use an additional PTO/AIA/01 form for each additional inventor.

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EFS ID:	39630531
Application Number:	16893023
International Application Number:	
Confirmation Number:	1826
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:	0246162.00056
Receipt Date:	04-JUN-2020
Filing Date:	
Time Stamp:	16:50:41
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no
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File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Application Data Sheet	0246162_00056_ADS.pdf	2754562	no	9
			5deb1d2a31df5132bc76cc98286567b7bea d38ce		

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	Multipart Description/PDF files in .zip description				
	Document Description		Start	End	
	Specification		1	27	
	Claims		28	33	
	Abstract		34	34	
Warnings:					
Information:					
3	Drawings-only black and white line drawings	1402374_00056_Drawings.pdf	159636 ec1aa9768523fc5802be2de3d806af0475db54ea	no	12
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Warnings:					
Information:					
Total Files Size (in bytes):			3200820		

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

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

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

New International Application Filed with the USPTO as a Receiving Office

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SCORE Placeholder Sheet for IFW Content

Application Number: 16893023

Document Date: 06/04/2020

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

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

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- USPTO employees may access SCORE content via DAV or via the SCORE web page.
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