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.
18/896,197	09/25/2024	Sacha Spindler	0053-700.500	2568

105822 7590 01/14/2025
Aurora Consulting LLC
Ashley Sloat
810 Cottageview Dr.
Ste. G10
Traverse City, MI 49684

EXAMINER
DEAN, JR, JOSEPH E

ART UNIT	PAPER NUMBER
2647	

NOTIFICATION DATE	DELIVERY MODE
01/14/2025	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):

paralegal@aurorapatents.com

Salesforce EX1021
Salesforce, Inc. v. IQX Corp.
IPR2026-00475

APPLICATION NO.	ISSUE DATE	PATENT NO.
18/896,197	14-Jan-2025	12200165

Aurora Consulting LLC
Ashley Sloat
810 Cottageview Dr.
Traverse City, MI 49684

EGRANT NOTIFICATION

Your electronic patent grant (eGrant) is now available, which can be accessed via Patent Center at https://patentcenter.uspto.gov

The electronic patent grant is the official patent grant under 35 U.S.C. 153. For more information, please visit https://www.uspto.gov/electronicgrants

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
18/896,197	09/25/2024	Sacha Spindler	0053-700.500

CONFIRMATION NO. 2568

PUBLICATION NOTICE

OC000000082862193

105822
Aurora Consulting LLC
Ashley Sloat
810 Cottageview Dr.
Ste. G10
Traverse City, MI 49684

Date Mailed: 01/10/2025

Title:AUTOMATED SILENT NETWORK AUTHENTICATION PROTOCOL SECURITY, VERIFICATION, AND ACCESS CONTROL FOR CELLULAR HANDHELD DEVICES

Publication No.US-2025-0016262-A1
Publication Date:01/09/2025

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 viewed using the USPTO's publicly available Searchable Databases via the Patent Public Search tool at www.uspto.gov. The direct link to access the Patent Public Search tool is currently https://ppubs.uspto.gov/pubwebapp/static/pages/ppubsbasic.html.

The publication process established by the Office does not provide for mailing a copy of the publication to applicant. A copy of the publication may be obtained from the Office upon payment of the appropriate fee set forth in 37 CFR 1.19(a)(1). Orders for copies of patent application publications are handled by the USPTO's Public Records Division. The Public Records Division can be reached by telephone at (571) 272-3150 or (800) 972-6382, by facsimile at (571) 273-3250, by mail addressed to the United States Patent and Trademark Office, Public Records Division, Alexandria, VA 22313-1450 or via the Internet.

In addition, information on the status of the application, including the mailing date of Office actions and the dates of receipt of correspondence filed in the Office, may also be accessed via the Internet through Patent Center, the USPTO's electronic patent application filing and management system. The direct link to access this status information is currently https://patentcenter.uspto.gov/. Prior to publication, such status information is confidential and may only be obtained by applicant using the private side of Patent Center.

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

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

UNITED STATES PATENT AND TRADEMARK OFFICE

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

APPLICATION NO.	ISSUE DATE	PATENT NO.	ATTORNEY DOCKET NO.	CONFIRMATION NO.
18/896,197	01/14/2025	12200165	0053-700.500	2568

105822 7590 12/25/2024

Aurora Consulting LLC
Ashley Sloat
810 Cottageview Dr.
Ste. G10
Traverse City, MI 49684

ISSUE NOTIFICATION

The projected patent number and issue date are specified above. The patent will issue electronically. The electronically issued patent is the official patent grant pursuant to 35 U.S.C. § 153. The patent may be accessed on or after the issue date through Patent Center at https://patentcenter.uspto.gov/. The patent will be available in both the public and the private sides of Patent Center. Further assistance in electronically accessing the patent, or about Patent Center, is available by calling the Patent Electronic Business Center at 1-888-217-9197.

The USPTO is implementing electronic patent issuance with a transition period, during which period the USPTO will mail a ceremonial paper copy of the electronic patent grant to the correspondence address of record. Additional copies of the patent (i.e., certified and presentation copies) may be ordered for a fee from the USPTO's Certified Copy Center at https://certifiedcopycenter.uspto.gov/index.html. The Certified Copy Center may be reached at (800)972-6382.

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 Center (https://patentcenter.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 PATENT CENTER site https://patentcenter.uspto.gov for additional inventors):

Sacha Spindler, Prague 8, CZECHIA;
Aidan Wright, Tigard, OR;

APPLICANT(s) (Please see PATENT CENTER site https://patentcenter.uspto.gov for additional applicants):

IQX CORP., Carson City, 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.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number	18896197
	Filing Date	2024-09-25
	First Named Inventor	Sacha Spindler
	Art Unit	2647
	Examiner Name	J. Dean
	Attorney Docket Number	0053-700.500

	14	20180005263	A1	2018-01-04	McNulty et al.	Entire Document
	15	20180103004	A1	2018-04-12	Demir et al.	Entire Document
Change(s) applied to document. /M.D./ 11/25/2024	16	20190141039	B2	~~2021-07-13~~ 05/2019	Stoops et al.	Entire Document
	17	20230077942	A1	2023-03-16	CRUTCHINGTON et al.	Entire Document

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

FOREIGN PATENT DOCUMENTS Remove

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							☐

If you wish to add additional Foreign Patent Document citation information please click the Add button Add

NON-PATENT LITERATURE DOCUMENTS Remove

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	International Search Report dated 12/13/2019 re PCT/US19/52847 (2 pages)	☐
	2	Written Opinion dated 12/13/2019 re PCT/US19/52847 (5 pages)	☐

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

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /J.E.D/

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number	18896197
	Filing Date	2024-09-25
	First Named Inventor	Sacha Spindler
	Art Unit	2647
	Examiner Name	J. Dean
	Attorney Docket Number	0053-700.500

	3	20070174448	A1	2007-07-26	Ahuja et al.	Entire Document
	4	20070255620	A1	2007-11-01	Tumminaro et al.	Entire Document
	5	20070288323	A1	2007-12-13	Halevy	Entire Document
	6	20100113072	A1	2010-05-06	Gibson et al.	Entire Document
	7	20110218880	A1	2011-09-08	Hammad et al.	Entire Document
	8	20120185382	A1	2012-07-19	Fischer	Entire Document
	9	20120203605	A1	2012-08-09	Morgan et al.	Entire Document
	10	20130080319	A1	2013-03-28	Greenstone	Entire Document
	11	20140187197	A1	2014-07-03	SEGE	Entire Document
	12	20170256007	A1	2017-09-07	Barman	Entire Document
	13	20170295414	B2	~~2020-02-11~~ 10/2017	Murray et al.	Entire Document

Change(s) applied to document, /MD/ 11/25/2024

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /J.E.D/

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
18/896,197	09/25/2024	Sacha Spindler	0053-700.500

CONFIRMATION NO. 2568

POA ACCEPTANCE LETTER

OC000000081647096

105822
Aurora Consulting LLC
Ashley Sloat
810 Cottageview Dr.
Ste. G10
Traverse City, MI 49684

Date Mailed: 12/10/2024

NOTICE OF ACCEPTANCE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 12/04/2024.

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**.

/c hilliard/

UNITED STATES
PATENT AND TRADEMARK OFFICE

P.O. Box 1450
Alexandria, VA 22313 - 1450
www.uspto.gov

ELECTRONIC ACKNOWLEDGEMENT RECEIPT

APPLICATION #	RECEIPT DATE / TIME	ATTORNEY DOCKET #
18/896,197	**12/04/2024 01:38:18 PM Z ET**	**0053-700.500**

Title of Invention

AUTOMATED SILENT NETWORK AUTHENTICATION PROTOCOL SECURITY, VERIFICATION, AND ACCESS CONTROL FOR CELLULAR HANDHELD DEVICES

Application Information

APPLICATION TYPE	Utility - Nonprovisional Application under 35 USC 111(a)	PATENT #	-
CONFIRMATION #	2568	FILED BY	Alisa McCarthy
PATENT CENTER #	68220042	FILING DATE	09/25/2024
CUSTOMER #	105822	FIRST NAMED INVENTOR	Sacha Spindler
CORRESPONDENCE ADDRESS	-	AUTHORIZED BY	Kristen Hansen

Documents

TOTAL DOCUMENTS: 2

DOCUMENT	PAGES	DESCRIPTION	SIZE (KB)
20241204 Statement Under 3.73c.pdf	3	Assignee showing of ownership per 37 CFR 3.73	120 KB
0053-700.500 Executed POA with Transmittal.pdf	2	Power of Attorney	384 KB

Digest

DOCUMENT	MESSAGE DIGEST(SHA-512)
20241204 Statement Under 3.73c.pdf	0EE2C8E9578ECCECF3D063080823726AD88A3DF16E5A1CD4526B051BD5975FA9F9A51AAB1EB4EB2FCC91751979A0B522BBDEF08A0B303008B284766D3C3EC5C0

0053-700.500 Executed POA with Transmittal.pdf

E8D8DFFD0F0BECC31AA4D8F101442567C4970647357D26AA8F12F02BA0B87E25697B378A8565738B473D5D4CCAF7476CF2729A08140FE95531426FBA4C475958

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

New Applications Under 35 U.S.C. 111

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

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

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

New International Application Filed with the USPTO as a Receiving Office

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

PTO/AIA/96 (08-12)
Approved for use through 11/30/2020. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

STATEMENT UNDER 37 CFR 3.73(c)

Applicant/Patent Owner: IQX CORP.

Application No./Patent No.: 18/896,197 Filed/Issue Date: 2024-09-25

Titled: AUTOMATED SILENT NETWORK AUTHENTICATION PROTOCOL SECURITY, VERIFICATION, AND ACCESS CONTROL FOR CELLULAR HANDHELD DEVICES

IQX CORP., a corporation

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

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

1. ☒ The assignee of the entire right, title, and interest.

2. ☐ An assignee of less than the entire right, title, and interest (check applicable box):

☐ The extent (by percentage) of its ownership interest is _____%. Additional Statement(s) by the owners holding the balance of the interest must be submitted to account for 100% of the ownership interest.

☐ There are unspecified percentages of ownership. The other parties, including inventors, who together own the entire right, title and interest are:

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

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

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

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

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

A. ☒ An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office at Reel 068699, Frame 0443, or for which a copy thereof is attached.

B. ☐ A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as follows:

1. From: _____ To: _____

The document was recorded in the United States Patent and Trademark Office at

Reel _____, Frame _____, or for which a copy thereof is attached.

2. From: _____ To: _____

The document was recorded in the United States Patent and Trademark Office at

Reel _____, Frame _____, or for which a copy thereof is attached.

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

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

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

STATEMENT UNDER 37 CFR 3.73(c)

3. From: _____ To: _____

The document was recorded in the United States Patent and Trademark Office at

Reel _____, Frame _____, or for which a copy thereof is attached.

4. From: _____ To: _____

The document was recorded in the United States Patent and Trademark Office at

Reel _____, Frame _____, or for which a copy thereof is attached.

5. From: _____ To: _____

The document was recorded in the United States Patent and Trademark Office at

Reel _____, Frame _____, or for which a copy thereof is attached.

6. From: _____ To: _____

The document was recorded in the United States Patent and Trademark Office at

Reel _____, Frame _____, or for which a copy thereof is attached.

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

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

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

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

/Kristen J. Hansen/	2024-12-04
Signature	Date
Kristen J. Hansen	63,526
Printed or Typed Name	Title or Registration Number

Privacy Act Statement

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

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

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

Doc Code: PA..
Document Description: Power of Attorney

PTO/AIA/82A (07-13)
Approved for use through 09/30/2025. OMB 0651-0035
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
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.

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/AIA82B identifies the application to which the Power of Attorney is directed, the Power of Attorney will not be recognized in the application.

Application Number	18/896,197
Filing Date	2024-09-25
First Named Inventor	Sacha Spindler
Title	AUTOMATED SILENT NETWORK AUTHENTICATION PROTOCOL SECURITY, VERIFICATION, AND ACCESS CONTROL FOR CELLULAR HANDHELD DEVICES
Art Unit	2647
Examiner Name	Dean, Jr., Joseph E.
Attorney Docket Number	0053-700.500

SIGNATURE of Applicant or Patent Practitioner

Signature	/Kristen J. Hansen/	Date (Optional)	2024-12-04
Name	Kristen J. Hansen	Registration Number	63,526
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 _____ forms are submitted.

A Federal agency may not conduct or sponsor, and a person is not required to respond to, nor shall a person be subject to a penalty for failure to comply with an information collection subject to the requirements of the Paperwork Reduction Act of 1995, unless the information collection has a currently valid OMB Control Number. The OMB Control Number for this information collection is 0651-0035. Public burden for this form is estimated to average 3 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the information collection. Send comments regarding this burden estimate or any other aspect of this information collection, including suggestions for reducing this burden to the Chief Administrative Officer, United States Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450 or email InformationCollection@uspto.gov. **DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS.** If filing this completed form by mail, 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.

Doc Code: PA..
Document Description: Power of Attorney

PTO/AIA/82B (07-13)
Approved for use through 09/30/2025. OMB 0651-0035
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number

POWER OF ATTORNEY BY APPLICANT

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

Application Number	Filing Date

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

☑ I hereby appoint the Patent Practitioner(s) associated with the following Customer Number as my/our attorney(s) or agent(s), and to transact all business in the United States Patent and Trademark Office connected therewith for the application referenced in the attached transmittal letter (form PTO/AIA/82A) or identified above: 105822

OR

☐ I hereby appoint Practitioner(s) named in the attached list (form PTO/AIA/82C) as my/our attorney(s) or agent(s), and to transact all business in the United States Patent and Trademark Office connected therewith for the patent application referenced in the attached transmittal letter (form PTO/AIA/82A) or identified above. (Note: Complete form PTO/AIA/82C.)

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

☑ The address associated with the above-mentioned Customer Number

OR

☐ The address associated with Customer Number: 105822

OR

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

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

iQX Corp.

☐ Inventor or Joint Inventor (title not required below)

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

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

☐ Person Who Otherwise Shows Sufficient Proprietary Interest (e.g., a petition under 37 CFR 1.46(b)(2) was granted in the application or is concurrently being filed with this document) (provide signer's title if applicant is a juristic entity)

SIGNATURE of Applicant for Patent

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

Signature	Sacha Spindler	Date (Optional)	02 / 13 / 2024
Name	Sacha Spindler		
Title	CEO		

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

☐ Total of forms are submitted.

A Federal agency may not conduct or sponsor, and a person is not required to respond to, nor shall a person be subject to a penalty for failure to comply with an information collection subject to the requirements of the Paperwork Reduction Act of 1995, unless the information collection has a currently valid OMB Control Number. The OMB Control Number for this information collection is 0651-0035. Public burden for this form is estimated to average 3 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the information collection. Send comments regarding this burden estimate or any other aspect of this information collection, including suggestions for reducing this burden to the Chief Administrative Officer, United States Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450 or email InformationCollection@uspto.gov. **DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS.** If filing this completed form by mail, send to: **Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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

UNITED STATES
PATENT AND TRADEMARK OFFICE

P.O. Box 1450
Alexandria, VA 22313 - 1450
www.uspto.gov

ELECTRONIC PAYMENT RECEIPT

APPLICATION #	RECEIPT DATE / TIME	ATTORNEY DOCKET #
18/896,197	**12/03/2024 04:53:09 PM Z ET**	**0053-700.500**

Title of Invention

AUTOMATED SILENT NETWORK AUTHENTICATION PROTOCOL SECURITY, VERIFICATION, AND ACCESS CONTROL FOR CELLULAR HANDHELD DEVICES

Application Information

APPLICATION TYPE	Utility - Nonprovisional Application under 35 USC 111(a)	PATENT #	-
CONFIRMATION #	2568	FILED BY	Joanna Moore
PATENT CENTER #	68207674	AUTHORIZED BY	Kristen Hansen
CUSTOMER #	105822	FILING DATE	09/25/2024
CORRESPONDENCE ADDRESS	-	FIRST NAMED INVENTOR	Sacha Spindler

Payment Information

PAYMENT METHOD	PAYMENT TRANSACTION ID	PAYMENT AUTHORIZED BY
CARD / 6400	**E2024B3G54305200**	**Joanna Moore**

FEE CODE	DESCRIPTION	ITEM PRICE($)	QUANTITY	ITEM TOTAL($)
2501	UTILITY ISSUE FEE	480.00	1	480.00
			TOTAL AMOUNT:	**$480.00**

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

New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for 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.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), by mail or fax, or via the USPTO patent electronic filing system.

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 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. **Because electronic patent issuance may occur shortly after issue fee payment, any desired continuing application should preferably be filed prior to payment of this issue fee in order not to jeopardize copendency.**

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

105822 7590 11/14/2024
Aurora Consulting LLC
Ashley Sloat
810 Cottageview Dr.
Ste. G10
Traverse City, MI 49684

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

Certificate of Mailing or Transmission

I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being transmitted to the USPTO via the USPTO patent electronic filing system 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.
18/896,197	09/25/2024	Sacha Spindler	0053-700.500	2568

TITLE OF INVENTION: AUTOMATED SILENT NETWORK AUTHENTICATION PROTOCOL SECURITY, VERIFICATION, AND ACCESS CONTROL FOR CELLULAR HANDHELD DEVICES

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	SMALL	$480	$0.00	$0.00	$480	02/14/2025

EXAMINER	ART UNIT	CLASS-SUBCLASS
DEAN, JR, JOSEPH E	2647	455-466000

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

1 Aurora Consulting LLC
2 Kristen J. Hansen, Reg. No. 63,526
3 Ashley Sloat, Reg. No. 72,241

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: IQX CORP.

(B) RESIDENCE: (CITY and STATE OR COUNTRY): Carson City, NV

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)

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

☒ Electronic Payment via the USPTO patent electronic filing system ☐ 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 /Kristen J. Hansen/ Date 2024-12-03

Typed or printed name Kristen J. Hansen Registration No. 63,526

UNITED STATES
PATENT AND TRADEMARK OFFICE

P.O. Box 1450
Alexandria, VA 22313 - 1450
www.uspto.gov

ELECTRONIC ACKNOWLEDGEMENT RECEIPT

APPLICATION #	RECEIPT DATE / TIME	ATTORNEY DOCKET #
18/896,197	**12/03/2024 04:53:09 PM Z ET**	**0053-700.500**

Title of Invention

AUTOMATED SILENT NETWORK AUTHENTICATION PROTOCOL SECURITY, VERIFICATION, AND ACCESS CONTROL FOR CELLULAR HANDHELD DEVICES

Application Information

APPLICATION TYPE	Utility - Nonprovisional Application under 35 USC 111(a)	PATENT #	-
CONFIRMATION #	2568	FILED BY	Joanna Moore
PATENT CENTER #	68207674	FILING DATE	09/25/2024
CUSTOMER #	105822	FIRST NAMED INVENTOR	Sacha Spindler
CORRESPONDENCE ADDRESS	-	AUTHORIZED BY	Kristen Hansen

Documents

TOTAL DOCUMENTS: 2

DOCUMENT	PAGES	DESCRIPTION	SIZE (KB)
0053-700.500_CommentsonStatementofReasonsforAllowance.pdf	1	Post Allowance Communication - Incoming	103 KB
0053-700.500_Issue Fee Payment.pdf	1	Issue Fee Payment (PTO-85B)	147 KB

Digest

DOCUMENT	MESSAGE DIGEST(SHA-512)
0053-700.500_CommentsonStateme	27A7B840EB48681A27FD6FE43CB6428422C82542348FB9A0E35B4D47B5CC2FAC48A6D8B70CBFD35D9B8E89750C221D3C

ntofReasonsforAllowance.pdf	785600522E8EE90C57B3DC4FAF7C971F
0053-700.500_Issue Fee Payment.pdf	29DCD4A617A0C09398CEE6FA2A93630D10A66DED6228BF72E5946C78B8D4AA572E72291AB64CFF26B3E0A38043EA16B9432C651CA71751E9F820CCE469C4A3C4

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

New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for 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

Appl. No.	:	18/896,197	Confirmation No.:		2568
Inventor(s)	:	Sacha Spindler *et al.*	Docket No.	:	0053-700.500
Filing Date	:	September 25, 2024			
Art Unit	:	2647			
Examiner	:	Dean, Jr., Joseph E.			
Title	:	AUTOMATED SILENT NETWORK AUTHENTICATION PROTOCOL SECURITY, VERIFICATION, AND ACCESS CONTROL FOR CELLULAR HANDHELD DEVICES			

COMMENTS ON STATEMENT OF REASONS FOR ALLOWANCE

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

Commissioner:

Applicant sincerely thanks the Examiner for finding the claims of the above-referenced patent application to be allowable. While Applicant also believes that the claims are allowable, Applicant does not necessarily agree with the Statement of Reasons for Allowance mailed November 14, 2024. It should not be inferred or concluded that Applicant agrees with the construction, characterization, or interpretation of the claims provided within the Statement of Reasons for Allowance. Applicant does not necessarily agree that patentability resides in the feature(s) referenced in the Statement of Reasons for Allowance, and Applicant does not acquiesce that such feature(s) are required for patentability.

If any issues remain, the Examiner is invited to call the undersigned at (952) 215-4131.

Date: December 3, 2024

Respectfully submitted,

By: /Kristen J. Hansen/
Kristen J. Hansen
Registration No. 63,526

AURORA CONSULTING LLC
810 Cottageview Dr., Ste. G10
Traverse City, MI 49684

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

105822 7590 11/14/2024
Aurora Consulting LLC
Ashley Sloat
810 Cottageview Dr.
Ste. G10
Traverse City, MI 49684

EXAMINER
DEAN, JR, JOSEPH E

ART UNIT	PAPER NUMBER
2647	

DATE MAILED: 11/14/2024

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
18/896,197	09/25/2024	Sacha Spindler	0053-700.500	2568

TITLE OF INVENTION: AUTOMATED SILENT NETWORK AUTHENTICATION PROTOCOL SECURITY, VERIFICATION, AND ACCESS CONTROL FOR CELLULAR HANDHELD DEVICES

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	SMALL	$480	$0.00	$0.00	$480	02/14/2025

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 40% the amount of undiscounted fees, and micro entity fees are 20% the amount of undiscounted 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 the USPTO patent electronic filing system.

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 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. **Because electronic patent issuance may occur shortly after issue fee payment, any desired continuing application should preferably be filed prior to payment of this issue fee in order not to jeopardize copendency.**

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

105822 7590 11/14/2024
Aurora Consulting LLC
Ashley Sloat
810 Cottageview Dr.
Ste. G10
Traverse City, MI 49684

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

Certificate of Mailing or Transmission

I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being transmitted to the USPTO via the USPTO patent electronic filing system 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.
18/896,197	09/25/2024	Sacha Spindler	0053-700.500	2568

TITLE OF INVENTION: AUTOMATED SILENT NETWORK AUTHENTICATION PROTOCOL SECURITY, VERIFICATION, AND ACCESS CONTROL FOR CELLULAR HANDHELD DEVICES

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	SMALL	$480	$0.00	$0.00	$480	02/14/2025

EXAMINER	ART UNIT	CLASS-SUBCLASS
DEAN, JR, JOSEPH E	2647	455-466000

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

1_____
2_____
3_____

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

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document 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)

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

❑ Electronic Payment via the USPTO patent electronic filing system ❑ 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

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

❑ Applicant asserting small entity status. See 37 CFR 1.27

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

❑ Applicant changing to regular undiscounted fee status.

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

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

Authorized Signature _____ Date _____

Typed or printed name _____ Registration No. _____

UNITED STATES 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.
18/896,197	09/25/2024	Sacha Spindler	0053-700.500	2568

105822 7590 11/14/2024
Aurora Consulting LLC
Ashley Sloat
810 Cottageview Dr.
Ste. G10
Traverse City, MI 49684

EXAMINER
DEAN, JR, JOSEPH E

ART UNIT	PAPER NUMBER
2647	

DATE MAILED: 11/14/2024

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. The United States Patent and Trademark Office (USPTO) collects the information in this record under authority of 35 U.S.C. 2. The USPTO's system of records is used to manage all applicant and owner information including name, citizenship, residence, post office address, and other information with respect to inventors and their legal representatives pertaining to the applicant's/owner's activities in connection with the invention for which a patent is sought or has been granted. The applicable Privacy Act System of Records Notice for the information collected in this form is COMMERCE/PAT-TM-7 Patent Application Files, available in the Federal Register at 78 FR 19243 (March 29, 2013).
https://www.govinfo.gov/content/pkg/FR-2013-03-29/pdf/2013-07341.pdf

Routine uses of the information in this record may include disclosure to:

1) law enforcement, in the event that the system of records indicates a violation or potential violation of law;
2) a federal, state, local, or international agency, in response to its request;
3) a contractor of the USPTO having need for the information in order to perform a contract;
4) the Department of Justice for determination of whether the Freedom of Information Act (FOIA) requires disclosure of the record;
5) a Member of Congress submitting a request involving an individual to whom the record pertains, when the individual has requested the Member's assistance with respect to the subject matter of the record;
6) a court, magistrate, or administrative tribunal, in the course of presenting evidence, including disclosures to opposing counsel in the course of settlement negotiations;
7) the Administrator, General Services Administration (GSA), or their designee, during an inspection of records conducted by GSA under authority of 44 U.S.C. 2904 and 2906, in accordance with the GSA regulations and any other relevant (i.e., GSA or Commerce) directive, where such disclosure shall not be used to make determinations about individuals;
8) 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));
9) the Office of Personnel Management (OPM) for personnel research purposes; and
10) the Office of Management and Budget (OMB) for legislative coordination and clearance.

If you do not furnish the information requested on this form, the USPTO may not be able to process and/or examine your submission, which may result in termination of proceedings, abandonment of the application, and/or expiration of the patent.

Notice of Allowability	Application No. 18/896,197	Applicant(s) Spindler et al.	
	Examiner JOSEPH E DEAN, JR	Art Unit 2647	AIA (FITF) Status Yes

-- 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 09/25/24.
   ☐ 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 1-20 . As a result of the allowed claim(s), you may be eligible to benefit from the **Patent Prosecution Highway** program at a participating intellectual property office for the corresponding application. For more information, please see **http://www.uspto.gov/patents/init_events/pph/index.jsp** or send an inquiry to **PPHfeedback@uspto.gov.**

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

   Certified copies:

   a) ☐ All b) ☐ Some* c) ☐ None of the:

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

   * Certified copies not received: _____ .

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

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

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

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

Attachment(s)

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

/JOSEPH E DEAN, JR/
Primary Examiner, Art Unit 2647

Notice of Pre-AIA or AIA Status

1. The present application, filed on or after March 16, 2013, is being examined under the first inventor to file provisions of the AIA.

Allowable Subject Matter

2. In view of amended claims filed on 09/25/2024 and further search, Claims 1-20 are allowed over prior art.

The following is a statement of reasons for the indication of allowable subject matter: It's interpreted, the prior art of record either singularly or in proper combination fails to teach wherein responsive to receiving an indication associated with selecting the at least one action, requesting authorization data corresponding to the at least one authorized recipient and scheduling, using a machine learning model and based on the determined classification, delivery of the RCS message to the mobile computing device.

Prior art teaches a Rich Communication Suite (RCS) and RCS-e ("e" for enhanced) messaging infrastructure within a network without the need to deploy an IP Multimedia Subsystem (IMS) core within the network and the server may send, to the electronic device of the other party, a request for identifying whether RCS is supported, and may determine whether RCS is supported based on a response that is received from the electronic device of the other party. If the electronic device of the other party supports RCS, the server may successfully deliver the RCS message.

However, the prior art fails to teach the claimed limitation wherein responsive to receiving an indication associated with selecting the at least one action, requesting authorization data corresponding to the at least one authorized recipient and scheduling, using a machine learning model and based on the determined classification, delivery of the RCS message to the mobile computing device. Therefore, the prior art of record either singularly or in combination fails to teach the above claimed limitations for claim 1, 8 and 14 is therefore the reason for allowance. All dependent claims are therefore allowed under same reasons set forth above.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to JOSEPH E DEAN, JR whose telephone number is (571)270-7116. The examiner can normally be reached Mon-Fri 7:30-3:30.

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.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Alison Slater can be reached on 571-270-0375. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of published or unpublished applications may be obtained from Patent Center. Unpublished application information in Patent Center is available to registered users. To file and manage patent submissions in Patent Center, visit: https://patentcenter.uspto.gov. Visit https://www.uspto.gov/patents/apply/patent-center for more information about Patent Center and https://www.uspto.gov/patents/docx for information about filing in DOCX format. For additional questions, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/JOSEPH E DEAN, JR/
Primary Examiner, Art Unit 2647

Notice of References Cited	Application/Control No. 18/896,197	Applicant(s)/Patent Under Reexamination Spindler et al.	
	Examiner JOSEPH E DEAN, JR	Art Unit 2647	Page 1 of 1

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date YYYY-MM-DD	Name	CPC Classification	US Classification
*	A	US-9549073-B2	2017-01-17	Zitnik; Stephen J.	H04L65/1046	1/1
*	B	US-10298739-B2	2019-05-21	Lee; Je Min	H04W4/12	1/1
	C					
	D					
	E					
	F					
	G					
	H					
	I					
	J					
	K					
	L					
	M					

FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date YYYY-MM-DD	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 YYYY-MM-DD format are publication dates. Classifications may be US or foreign.

Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	18/896,197	Spindler et al.
	Examiner	**Art Unit**
	JOSEPH E DEAN, JR	2647

CPC - Searched*		
Symbol	**Date**	**Examiner**
(H04M1/72445 OR H04M1/72436 OR H04W4/14 OR H04W4/20 OR H04W12/06)	10/31/2024	J. Dean

CPC Combination Sets - Searched*		
Symbol	**Date**	**Examiner**

US Classification - Searched*			
Class	**Subclass**	**Date**	**Examiner**

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

Search Notes		
Search Notes	**Date**	**Examiner**
PE2E and text search; claims and inventor's search	10/31/2024	J. Dean

Interference Search			
US Class/CPC Symbol	**US Subclass/CPC Group**	**Date**	**Examiner**
H04M	1/72445, 1/72436	10/31/2024	J. Dean
H04W	4/14, 4/20, 12/06	10/31/2024	J. Dean

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	18/896,197	Spindler et al.
	Examiner	**Art Unit**
	JOSEPH E DEAN, JR	2647

CPC

Symbol					Type	Version
H04M	/	1	/	72445	F	2021-01-01
H04M	/	1	/	72436	I	2021-01-01
H04W	/	4	/	14	I	2013-01-01
H04W	/	4	/	20	I	2013-01-01
H04W	/	12	/	06	I	2013-01-01

CPC Combination Sets

Symbol					Type	Set	Ranking	Version
	/		/					

Use images from artifact folder? ◉ Yes ○ No

NONE (Assistant Examiner)	(Date)	**Total Claims Allowed:** 20	
/JOSEPH E DEAN, JR/ Primary Examiner, Art Unit 2647 (Primary Examiner)	02 November 2024 (Date)	O.G. Print Claim(s) 1	O.G. Print Figure 17

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	18/896,197	Spindler et al.
	Examiner	**Art Unit**
	JOSEPH E DEAN, JR	2647

INTERNATIONAL CLASSIFICATION				
CLAIMED				
H04W	/	4	/	14
H04W	/	4	/	20

NON-CLAIMED				
	/		/	

US ORIGINAL CLASSIFICATION	
CLASS	**SUBCLASS**

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

Use images from artifact folder? Yes No

NONE (Assistant Examiner)	(Date)	**Total Claims Allowed:** 20	
/JOSEPH E DEAN, JR/ Primary Examiner, Art Unit 2647 (Primary Examiner)	02 November 2024 (Date)	O.G. Print Claim(s) 1	O.G. Print Figure 17

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	18/896,197	Spindler et al.
	Examiner	**Art Unit**
	JOSEPH E DEAN, JR	2647

☑ 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

Use images from artifact folder? ◉ Yes ○ No

NONE (Assistant Examiner)	(Date)	**Total Claims Allowed:** 20	
/JOSEPH E DEAN, JR/ Primary Examiner, Art Unit 2647 (Primary Examiner)	02 November 2024 (Date)	O.G. Print Claim(s) 1	O.G. Print Figure 17

PTO/SB/08a (01-22)
Approved for use through 05/31/2024. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
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.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Not for submission under 37 CFR 1.99)

Application Number	18896197
Filing Date	2024-09-25
First Named Inventor	Sacha Spindler
Art Unit	2647
Examiner Name	J. Dean
Attorney Docket Number	0053-700.500

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	6101486	A	2000-08-08	Roberts et al.	Entire Document
	2	7197324	B2	2007-03-27	Sweeney	Entire Document
	3	8131258	B2	2012-03-06	Smith et al.	Entire Document
	4	8195509	B1	2012-06-05	Mhatre et al.	Entire Document
	5	8630670	B2	2014-01-14	Sweeney	Entire Document
	6	8655782	B2	2014-02-18	Poon et al.	Entire Document
	7	8700729	B2	2014-04-15	Dua	Entire Document
	8	9053189	B2	2015-06-09	Hoag et al.	Entire Document

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /J.E.D/

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	18896197
	Filing Date	2024-09-25
	First Named Inventor	Sacha Spindler
	Art Unit	2647
	Examiner Name	J. Dean
	Attorney Docket Number	0053-700.500

	9	9143831	B1	2015-09-22	Hendren et al.	Entire Document
	10	10122824	B1	2018-11-06	Chokhawala et al.	Entire Document
	11	10699264	B1	2020-06-30	Barman	Entire Document
	12	11158009	B2	2021-10-26	Barman	Entire Document
	13	11250098	B2	2022-02-15	Chokhawala et al.	Entire Document
	14	11301219	B2	2022-04-12	DeTella et al.	Entire Document
	15	11443325	B2	2022-09-13	Kallugudde et al.	Entire Document

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

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	20030191945	A1	2003-10-09	Keech	Entire Document
	2	20040230536	A1	2004-11-18	Fung, Daniel Y. et al.	Entire Document

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /J.E.D/

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	18896197
	Filing Date	2024-09-25
	First Named Inventor	Sacha Spindler
	Art Unit	2647
	Examiner Name	J. Dean
	Attorney Docket Number	0053-700.500

	3	20070174448	A1	2007-07-26	Ahuja et al.	Entire Document
	4	20070255620	A1	2007-11-01	Tumminaro et al.	Entire Document
	5	20070288323	A1	2007-12-13	Halevy	Entire Document
	6	20100113072	A1	2010-05-06	Gibson et al.	Entire Document
	7	20110218880	A1	2011-09-08	Hammad et al.	Entire Document
	8	20120185382	A1	2012-07-19	Fischer	Entire Document
	9	20120203605	A1	2012-08-09	Morgan et al.	Entire Document
	10	20130080319	A1	2013-03-28	Greenstone	Entire Document
	11	20140187197	A1	2014-07-03	SEGE	Entire Document
	12	20170256007	A1	2017-09-07	Barman	Entire Document
	13	20170295414	B2	2020-02-11	Murray et al.	Entire Document

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /J.E.D/

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	18896197
	Filing Date	2024-09-25
	First Named Inventor	Sacha Spindler
	Art Unit	2647
	Examiner Name	J. Dean
	Attorney Docket Number	0053-700.500

	14	20180005263	A1	2018-01-04	McNulty et al.	Entire Document
	15	20180103004	A1	2018-04-12	Demir et al.	Entire Document
	16	20190141039	B2	2021-07-13	Stoops et al.	Entire Document
	17	20230077942	A1	2023-03-16	CRUTCHINGTON et al.	Entire Document

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

FOREIGN PATENT DOCUMENTS Remove

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							☐

If you wish to add additional Foreign Patent Document citation information please click the Add button Add

NON-PATENT LITERATURE DOCUMENTS Remove

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	International Search Report dated 12/13/2019 re PCT/US19/52847 (2 pages)	☐
	2	Written Opinion dated 12/13/2019 re PCT/US19/52847 (5 pages)	☐

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

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /J.E.D/

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	18896197
	Filing Date	2024-09-25
	First Named Inventor	Sacha Spindler
	Art Unit	2647
	Examiner Name	J. Dean
	Attorney Docket Number	0053-700.500

EXAMINER SIGNATURE			
Examiner Signature	/JOSEPH E DEAN, JR/	Date Considered	11/02/2024

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

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

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /J.E.D/

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	18896197
	Filing Date	2024-09-25
	First Named Inventor	Sacha Spindler
	Art Unit	
	Examiner Name	
	Attorney Docket Number	0053-700.500

CERTIFICATION STATEMENT

Please see 37 CFR 1.97(e) 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.

☒ A certification statement is not submitted herewith.

FEE

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

COPIES

☐ An identification of an earlier application pursuant to 37 CFR 1.98 (d) (1) is attached.

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	/Kristen J. Hansen/	Date (YYYY-MM-DD)	2024-10-09
Name/Print	Kristen J. Hansen	Registration Number	63,526

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.**

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /J.E.D/

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 record s.

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.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /J.E.D/

PE2E SEARCH - Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	British Equivalents	Time Stamp
L1	2	"20070174448"	(US-PGPUB; USPAT)	OR	ON	ON	2022/08/26 03:19 PM
L2	8782	((computer OR server) near4 (interfac$3 OR interact$3) near4 (communicat$3 OR talk$3 OR connect$3) near4 (mobile OR "user equipment" OR "PDA" OR smartphone OR "subscriber station"))	(US-PGPUB; USPAT)	OR	ON	ON	2022/08/27 02:39 PM
L3	29187	((computer OR server) near4 (interfac$3 OR interact$3) near4 (communicat$3 OR talk$3 OR connect$3) near4 (mobile OR "user equipment" OR "PDA" OR smartphone OR "subscriber station"))	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/08/27 02:39 PM
L4	193	((receiv$3 OR obtain$3) near4 (inform$5 OR data) near4 (activat$3 OR trigger$3 OR signal$3) near4 (host OR "third party" OR external OR exterior) near5 (document OR page OR "web page"))	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/08/27 02:53 PM
L5	0	3 AND 4	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV,	OR	ON	ON	2022/08/27 02:53 PM

			MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)				
L6	3	4 AND ((H04M1/72445 OR H04M1/72436 OR H04W4/14 OR H04W4/20 OR H04W12/06 OR G06Q20/02 OR G06Q20/12 OR H04L63/0853 OR G06Q20/38 OR G06Q20/40 OR H04L63/18).cpc.)	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/08/27 02:55 PM
L7	26577	((receiv$3 OR obtain$3) near4 (inform$5 OR data) near4 (activat$3 OR trigger$3 OR signal$3) near5 (document OR page OR "web page"))	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/08/27 02:56 PM
L8	330	3 AND 7	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/08/27 02:56 PM

L9	49	8 AND ((H04M1/72445 OR H04M1/72436 OR H04W4/14 OR H04W4/20 OR H04W12/06 OR G06Q20/02 OR G06Q20/12 OR H04L63/0853 OR G06Q20/38 OR G06Q20/40 OR H04L63/18).cpc.)	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/08/27 02:57 PM
L10	0	((customiz$3 OR specializ$3) near4 ("third pary" OR host$2 OR exter$4) near5 (document OR page OR "web page") near4 (receiv$3 OR obtain$4) near4 (message OR text OR sms))	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/08/27 03:08 PM
L11	19	((customiz$3 OR specializ$3) near4 ("third pary" OR host$2 OR exter$4) near5 (document OR page OR "web page") near4 (message OR text OR sms))	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/08/27 03:08 PM
L12	1	11 AND ((H04M1/72445 OR H04M1/72436 OR H04W4/14 OR H04W4/20 OR H04W12/06 OR G06Q20/02 OR G06Q20/12 OR H04L63/0853 OR G06Q20/38 OR	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL,	OR	ON	ON	2022/08/27 03:09 PM

		G06Q20/40 OR H04L63/18).cpc.)	NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)				
L13	0	((customiz$3 OR specializ$3) near4 ("third pary" OR host$2 OR exter$4) near5 (document OR page OR "web page") near4 ("phone number" OR "telephone number"))	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/08/27 03:13 PM
L16	6	((customiz$3 OR specializ$3) near4 ("third pary" OR host$2 OR exter$4) near5 (document OR page OR "web page") near4 (email OR fax OR SMS))	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/08/27 03:24 PM
L17	19	((receiv$3 OR obtain$3) near4 (inform$5 OR data) near4 (activat$3 OR trigger$3 OR signal$3) near4 (host OR "third party" OR external OR exterior) near5(second OR other OR next) near7(document OR page OR "web page"))	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/04/26 02:34 PM
L18	0	17 AND ((H04M1/72445	(US-PGPUB; USPAT;	OR	ON	ON	2023/04/26

		OR H04M1/72436 OR H04W4/14 OR H04W4/20 OR H04W12/06 OR G06Q20/02 OR G06Q20/12 OR H04L63/0853 OR G06Q20/38 OR G06Q20/40 OR H04L63/18).cpc.)	USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)				02:34 PM
L19	37352	((computer OR server) near4 (interfac$3 OR interact$3) near4 (communicat$3 OR talk$3 OR connect$3) near6 (mobile OR "user equipment" OR "PDA" OR smartphone OR "subscriber station"))	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/04/26 04:11 PM
L20	33693	((receiv$3 OR obtain$3) near4 (inform$5 OR data) near4 (activat$3 OR trigger$3 OR signal$3) near7 (document OR page OR "web page"))	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/04/26 04:11 PM
L21	401	19 AND 20	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL,	OR	ON	ON	2023/04/26 04:12 PM

			PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)				
L22	53	21 AND ((H04M1/72445 OR H04M1/72436 OR H04W4/14 OR H04W4/20 OR H04W12/06 OR G06Q20/02 OR G06Q20/12 OR H04L63/0853 OR G06Q20/38 OR G06Q20/40 OR H04L63/18).cpc.)	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/04/26 04:12 PM
L23	1	((customiz$3 OR specializ$3) near4 ("third pary" OR host$2 OR exter$4) near5 (document OR page OR "web page") near4 (event))	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/04/27 10:38 AM
L24	6425	((generat$4 OR creat$3 OR initiat$3 OR formulat$3) near4 (second OR another OR other) near4 (document OR paper OR record OR report OR paper OR page) near6 (event))	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/04/27 11:34 AM
L25	0	8 AND 24	(US-PGPUB; USPAT; USOCR; FIT (AP, AT,	OR	ON	ON	2023/04/27 11:35 AM

			AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)				
L26	8	7 AND 24	(US-PGPUB; USPAT)	OR	ON	ON	2023/04/27 11:36 AM
L27	0	((receiv$3 OR obtain$3) near4 (inform$5 OR data) near4 (activat$3 OR trigger$3 OR signal$3) near4 (host OR "third party" OR external OR exterior) near5 (third OR addition$2) near4 (document OR page OR "web page") near6 (next OR another OR second OR target) near8 (number OR "telephone number" OR "phone number"))	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/05/04 03:08 PM
L28	4887	((third OR addition$2) near4 (document OR page OR "web page") near6 (next OR another OR second OR target) near8 (number OR "telephone number" OR "phone number"))	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/05/04 03:09 PM
L29	18	28 AND ((H04M1/72445 OR H04M1/72436 OR H04W4/14 OR H04W4/20 OR H04W12/06 OR G06Q20/02 OR G06Q20/12 OR H04L63/0853 OR	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV,	OR	ON	ON	2023/05/04 03:09 PM

		G06Q20/38 OR G06Q20/40 OR H04L63/18).cpc.)	MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)				
L30	7306	((generat$4 OR creat$3 OR initiat$3 OR formulat$3) near4 (second OR another OR other OR addition$2) near4 (document OR paper OR record OR report OR paper OR page) near6 (event))	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/07/07 03:51 PM
L31	31	((subscription) near6 (request OR demand OR inquir$4) near4(next OR another OR second OR target) near8 (associat$3 OR peer OR friend OR partner) near6 (number OR "telephone number" OR "phone number"))	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/07/07 04:00 PM
L32	0	30 AND 31	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/07/07 04:00 PM

L33	2	31 AND ((H04M1/72445 OR H04M1/72436 OR H04W4/14 OR H04W4/20 OR H04W12/06 OR G06Q20/02 OR G06Q20/12 OR H04L63/0853 OR G06Q20/38 OR G06Q20/40 OR H04L63/18).cpc.)	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/07/07 04:00 PM
L34	853	((subscription) near6 (request OR demand OR inquir$4) near4(next OR another OR second OR target) near8 (associat$3 OR peer OR friend OR partner))	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/07/07 04:06 PM
L35	0	30 AND 34	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/07/07 04:06 PM
L36	4867	((subscription) near6 (request OR demand OR inquir$4) near6 (number OR "telephone number" OR "phone number"))	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL,	OR	ON	ON	2023/07/07 04:09 PM

			NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)				
L37	41	30 AND 36	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/07/07 04:09 PM
L38	3	37 AND ((H04M1/72445 OR H04M1/72436 OR H04W4/14 OR H04W4/20 OR H04W12/06 OR G06Q20/02 OR G06Q20/12 OR H04L63/0853 OR G06Q20/38 OR G06Q20/40 OR H04L63/18).cpc.)	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/07/07 04:09 PM
L39	2959	((generat$4 OR creat$3 OR initiat$3 OR formulat$3) near4 (second OR another OR other OR addition$2) near4 (second OR third OR another) near5(document OR paper OR record OR report OR paper OR page) near6 (event))	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/07/10 10:40 AM
L40	3229	((generat$4 OR creat$3	(US-PGPUB; USPAT;	OR	ON	ON	2023/07/10

		OR initiat$3 OR formulat$3) near4 (second OR third OR another) near5(document OR paper OR record OR report OR paper OR page) near6 (event))	USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)				10:41 AM
L41	21737	((second) near4 (message) near4 (link OR "url"))	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/07/10 10:44 AM
L42	19	40 AND 41	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/07/10 10:44 AM
L43	0	42 AND ((H04M1/72445 OR H04M1/72436 OR H04W4/14 OR H04W4/20 OR H04W12/06 OR G06Q20/02 OR G06Q20/12 OR H04L63/0853 OR G06Q20/38 OR G06Q20/40 OR	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL,	OR	ON	ON	2023/07/10 10:44 AM

		H04L63/18).cpc.)	PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)				
L44	9	"20070174448"	(US-PGPUB; USPAT)	OR	ON	ON	2023/07/10 12:49 PM
L45	9583	((computer OR server) near4 (interfac$3 OR interact$3) near4 (communicat$3 OR talk$3 OR connect$3) near4 (mobile OR "user equipment" OR "PDA" OR smartphone OR "subscriber station"))	(US-PGPUB; USPAT)	OR	ON	ON	2023/07/10 12:49 PM
L46	31616	((computer OR server) near4 (interfac$3 OR interact$3) near4 (communicat$3 OR talk$3 OR connect$3) near4 (mobile OR "user equipment" OR "PDA" OR smartphone OR "subscriber station"))	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/07/10 12:49 PM
L47	201	((receiv$3 OR obtain$3) near4 (inform$5 OR data) near4 (activat$3 OR trigger$3 OR signal$3) near4 (host OR "third party" OR external OR exterior) near5 (document OR page OR "web page"))	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/07/10 12:49 PM
L48	0	3 AND 4	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS,	OR	ON	ON	2023/07/10 12:49 PM

			IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)				
L49	3	4 AND ((H04M1/72445 OR H04M1/72436 OR H04W4/14 OR H04W4/20 OR H04W12/06 OR G06Q20/02 OR G06Q20/12 OR H04L63/0853 OR G06Q20/38 OR G06Q20/40 OR H04L63/18).cpc.)	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/07/10 12:49 PM
L50	27670	((receiv$3 OR obtain$3) near4 (inform$5 OR data) near4 (activat$3 OR trigger$3 OR signal$3) near5 (document OR page OR "web page"))	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/07/10 12:49 PM
L85	3	"17279188"	(US-PGPUB; USPAT)	OR	ON	ON	2023/11/02 11:03 AM
L86	0	((customiz$3 OR specializ$3) near4 ("third pary" OR host$2 OR exter$4) near5 (document OR page OR "web page" OR website OR "micro website") near4 ("phone number" OR "telephone number" OR identifier OR "custom identifier" OR "subscriber identifier"))	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN,	OR	ON	ON	2023/11/02 11:44 AM

			WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)				
L87	2421	(("third pary" OR host$2 OR exter$4) near5 (document OR page OR "web page" OR website OR "micro website") near4 ("phone number" OR "telephone number" OR identifier OR "custom identifier" OR "subscriber identifier"))	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/11/02 11:44 AM
L88	4	((e-commerce) near4 ("micro website" OR "micro webpage"))	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/11/02 11:47 AM
L89	4	((e-commerce) near4 (micro OR mini OR small OR tiny OR miniscule) near4 (website OR webpage) near4 (link))	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/11/02 12:07 PM
L90	4	((e$1commerce) near4 (micro OR mini OR small OR tiny OR miniscule) near4 (website OR webpage)	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA,	OR	ON	ON	2023/11/02 12:07 PM

		near4 (link))	EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)				
L91	103	((e$1commerce) near4 (micro OR mini OR small OR tiny OR miniscule) near4 (website OR webpage))	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/11/02 12:08 PM
L92	8868	((secur$4 OR authen$8) near4 (transaction OR exchange) near4 ("phone number" OR "telephone number" OR identifier OR "custom identifier" OR "subscriber identifier"))	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/11/02 12:13 PM
L93	0	91 AND 92	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO;	OR	ON	ON	2023/11/02 12:13 PM

			JPO; DERWENT; IBM_TDB)				
L94	158898	((transaction OR exchange) near4 ("phone number" OR "telephone number" OR identifier OR "custom identifier" OR "subscriber identifier"))	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/11/02 12:14 PM
L95	1	91 AND 94	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/11/02 12:14 PM
L96	9217	((secur$4 OR authen$8 OR safe OR trust$2) near4 (transaction OR exchange) near4 ("phone number" OR "telephone number" OR identifier OR "custom identifier" OR "subscriber identifier"))	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/11/02 12:21 PM
L97	4	((e$1commerce OR commerce OR "electronic commerce") near4 (micro OR mini OR small OR tiny OR miniscule) near4	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB,	OR	ON	ON	2023/11/02 12:24 PM

		(website OR webpage) near4 (link OR "url"))	HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)				
L98	4	((e$1commerce OR commerce OR "electronic commerce" OR transaction) near4 (micro OR mini OR small OR tiny OR miniscule) near4 (website OR webpage) near4 (link OR "url"))	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/11/02 12:25 PM
L99	522	((micro OR mini OR small OR tiny OR miniscule) near4 (website OR webpage) near4 (link OR "url"))	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/11/02 12:25 PM
L100	0	96 AND 99	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT;	OR	ON	ON	2023/11/02 12:26 PM

			IBM_TDB)				
L101	2	94 AND 99	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/11/02 12:27 PM
L102	5	87 AND 99	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/11/02 12:28 PM
L103	11982	(("web page" OR website OR "micro website") near4 (link OR "url") near5 ("phone number" OR "telephone number" OR identifier OR "custom identifier" OR "subscriber identifier"))	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/11/02 12:31 PM
L104	465464	((secur$4 OR authen$8 OR safe OR trust$2) near4 (transaction OR exchange))	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS,	OR	ON	ON	2023/11/02 12:33 PM

			IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)				
L105	1144	103 AND 104	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/11/02 12:34 PM
L106	2	105 AND 91	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/11/02 12:35 PM
L107	10	99 AND 105	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/11/04 09:21 AM

L108	1	47 AND 105	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/11/04 09:27 AM
L109	4	87 AND 91	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/11/04 09:32 AM
L110	10	87 AND 92	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/11/04 09:33 AM
L111	173	87 AND 104	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL,	OR	ON	ON	2023/11/04 10:26 AM

			NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)				
L112	61	111 AND ((H04M1/72445 OR H04M1/72436 OR H04W4/14 OR H04W4/20 OR H04W12/06 OR G06Q20/02 OR G06Q20/12 OR H04L63/0853 OR G06Q20/38 OR G06Q20/40 OR H04L63/18).cpc.)	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/11/04 10:27 AM
L113	330	"micro website"	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/11/04 10:41 AM
L114	9	113 AND ((H04M1/72445 OR H04M1/72436 OR H04W4/14 OR H04W4/20 OR H04W12/06 OR G06Q20/02 OR G06Q20/12 OR H04L63/0853 OR G06Q20/38 OR G06Q20/40 OR H04L63/18).cpc.)	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/11/04 10:41 AM
L115	4	uemweb	(US-PGPUB; USPAT;	OR	ON	ON	2023/11/04

			USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)				11:11 AM
L116	7019	addp	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/11/04 11:12 AM
L117	4	113 AND 116	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/11/04 11:12 AM
L118	1	103 AND 116	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL,	OR	ON	ON	2023/11/04 11:13 AM

			PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)				
L119	4	104 AND 116	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/11/04 11:13 AM
L120	4	(("micro website") near4 (ticket))	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/11/04 11:18 AM
L121	4	(("micro website") near20 (ticket))	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/11/04 11:18 AM
L122	20	(("micro website") near20 (purchase))	(US-PGPUB; USPAT; USOCR; FIT (AP, AT,	OR	ON	ON	2023/11/04 11:18 AM

			AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)				
L123	0	((identi$5 OR "ID") near4 (landline) near4 ("phone number" OR number) near4 (delet$3 OR destroy$3 OR "get rid of" OR purg$3) near6 ("customer identifier" OR "subscriber ID"))	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/11/04 06:08 PM
L124	0	((identi$5 OR "ID") near4 (landline) near4 ("phone number" OR number) near4 (delet$3 OR destroy$3 OR "get rid of" OR purg$3))	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/11/04 06:08 PM
L125	3	((identi$5 OR "ID") near4 (landline) near4 ("phone number" OR number) near40 (delet$3 OR destroy$3 OR "get rid of" OR purg$3))	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE,	OR	ON	ON	2023/11/04 06:09 PM

			SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)				
L126	1	((host$3) near4 (field) near4 (includ$3 OR inclusi$2 OR enter$2) near4 (document OR page) near4 ("third party" OR third$1party))	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/11/15 09:30 AM
L127	178	((host$3) near4 (field) near4 (includ$3 OR inclusi$2 OR enter$2) near4 (document OR page))	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/11/15 09:30 AM
L128	425	((recei$4 OR obtain$3) near4 (information OR data) near4 (activ$7 OR open$2 OR access$4) near4 (field OR area) near4 (document OR page))	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/11/15 09:39 AM
L129	1	127 AND 128	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY,	OR	ON	ON	2023/11/15 09:40 AM

			CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)				
L130	3014673	((recei$4 OR obtain$3) near4 (one OR more OR many OR plural$5 OR alot) near4 (message OR text OR data))	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/11/15 09:42 AM
L131	102	128 AND 130	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/11/15 09:43 AM
L132	8066	((generat$4 OR creat$3 OR initiat$3 OR formulat$3) near4 (customiz$3 OR specializ$3) near4 (document OR page OR "web page"))	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH,	OR	ON	ON	2023/11/15 09:47 AM

			TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)				
L133	6	131 AND 132	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/11/15 09:47 AM
L134	6	131 AND ((H04M1/72445 OR H04M1/72436 OR H04W4/14 OR H04W4/20 OR H04W12/06).cpc.)	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/11/15 11:30 AM
L135	1	((generat$4 OR creat$3 OR initiat$3 OR formulat$3) near4 (customiz$3 OR specializ$3) near4 (document OR page OR "web page") near4 (transaction OR exchange) near8 (telephone OR "telephone number"))	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/11/15 11:56 AM
L136	46	((generat$4 OR creat$3 OR initiat$3 OR formulat$3) near4 ("PIN code" OR "PIN number"	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU,	OR	ON	ON	2023/11/15 12:08 PM

		OR number OR pin) near4 (transaction OR exchange) near8 (interest OR choice OR hobby OR hobbie))	CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)				
L137	1	136 AND ((H04M1/72445 OR H04M1/72436 OR H04W4/14 OR H04W4/20 OR H04W12/06).cpc.)	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/11/15 12:31 PM
L138	11580	(("id") near4 ("me"))	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/11/16 09:05 AM
L139	2	132 AND 138	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN,	OR	ON	ON	2023/11/16 09:05 AM

			WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)				
L140	0	128 AND 138	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/11/16 09:07 AM
L141	0	127 AND 138	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/11/16 09:07 AM
L142	29	96 AND 138	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/11/16 09:08 AM
L143	7	142 AND ((H04M1/72445 OR H04M1/72436 OR H04W4/14 OR H04W4/20 OR	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA,	OR	ON	ON	2023/11/16 09:08 AM

		H04W12/06).cpc.)	EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)				
L144	50	((generat$4 OR creat$3 OR initiat$3 OR formulat$3) near4 ("PIN code" OR "PIN number" OR number OR pin) near4 (transaction OR exchange) near9 (interest OR choice OR hobby OR hobbie))	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/11/16 10:05 AM
L145	2	144 AND ((H04M1/72445 OR H04M1/72436 OR H04W4/14 OR H04W4/20 OR H04W12/06).cpc.)	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/11/16 10:06 AM
L146	0	132 AND 144	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO;	OR	ON	ON	2023/11/16 10:08 AM

			JPO; DERWENT; IBM_TDB)				
L147	38161	((generat$4 OR creat$3 OR initiat$3 OR formulat$3) near4 ("PIN code" OR "PIN number" OR number OR pin) near4 (transaction OR exchange))	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/11/16 10:19 AM
L148	24	132 AND 147	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/11/16 10:19 AM
L149	0	148 AND ((H04M1/72445 OR H04M1/72436 OR H04W4/14 OR H04W4/20 OR H04W12/06).cpc.)	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/11/16 10:28 AM
L150	28	"20030191945"	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB,	OR	ON	ON	2023/11/16 10:43 AM

			HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)				
L151	182	((opt$1in OR "opt-in") near4 (verific$7 OR verify))	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2023/11/17 11:06 AM
L152	19	151 AND ((H04M1/72445 OR H04M1/72436 OR H04W4/14 OR H04W4/20 OR H04W12/06).cpc.)	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/11/17 11:10 AM
L153	16	147 AND 151	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT;	OR	ON	ON	2023/11/18 05:44 AM

			IBM_TDB)				
L154	4	132 AND 151	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/11/18 06:01 AM
L155	378	((opt$1in OR "opt-in") near10 (verific$7 OR verify))	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2023/11/18 06:01 AM
L156	4	132 AND 155	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/11/18 06:02 AM
L157	20	147 AND 155	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS,	OR	ON	ON	2023/11/18 06:02 AM

			IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)				
L158	3	157 AND ((H04M1/72445 OR H04M1/72436 OR H04W4/14 OR H04W4/20 OR H04W12/06).cpc.)	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/11/18 06:03 AM
L159	19	((recei$4 OR obtain$3) near4 (content) near4 (webpage) near8 ("telephone number" OR "phone number"))	(US-PGPUB; USPAT)	OR	ON	ON	2023/12/02 01:14 PM
L160	371632	((service) near4 (subscriber))	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/12/02 01:18 PM
L161	2	159 AND 160	(US-PGPUB; USPAT)	OR	ON	ON	2023/12/02 01:18 PM
L162	59	((content) near4 (webpage) near8 ("telephone number" OR "phone number"))	(US-PGPUB; USPAT)	OR	ON	ON	2023/12/02 01:32 PM
L163	17587	((customi$4 OR unique OR specific) near4 (webpage))	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU,	OR	ON	ON	2023/12/02 01:34 PM

			CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)				
L164	39	162 AND 163	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/12/02 01:34 PM
L165	0	164 AND ((H04M1/72445 OR H04M1/72436 OR H04W4/14 OR H04W4/20 OR H04W12/06).cpc.)	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/12/02 01:35 PM
L166	0	147 AND 164	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN,	OR	ON	ON	2023/12/02 01:37 PM

			WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)				
L167	4	((secur$4 OR authen$8 OR safe OR trust$2) near4 (information OR data) near5 (activat$3 OR active) near4 (webpage))	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/12/02 01:58 PM
L168	37	((secur$4 OR authen$8 OR safe OR trust$2) near4 (information OR data) near5 (activat$3 OR active OR enabl$3) near4 (webpage))	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/12/02 01:59 PM
L169	22	162 AND 163	(US-PGPUB; USPAT)	OR	ON	ON	2023/12/02 02:00 PM
L170	0	162 AND 168	(US-PGPUB; USPAT)	OR	ON	ON	2023/12/02 02:00 PM
L171	1	163 AND 168	(US-PGPUB; USPAT)	OR	ON	ON	2023/12/02 02:01 PM
L172	0	91 AND 168	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT;	OR	ON	ON	2023/12/02 02:07 PM

			IBM_TDB)				
L173	105	((recei$4 OR obtain$3) near4 (information OR data) near4 (activ$7 OR open$2 OR access$4) near4 (field OR area) near4 (document OR page)).clm.	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/12/02 02:28 PM
L174	3	"17279188"	(US-PGPUB; USPAT)	OR	ON	ON	2023/12/12 10:24 PM
L175	0	"18193163"3	(US-PGPUB; USPAT)	OR	ON	ON	2023/12/13 06:33 AM
L176	8	"18193163"	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/12/13 06:34 AM
L177	235	((host$3) near4 (field) near5 (includ$3 OR inclusi$2 OR enter$2) near4 (document OR page))	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/12/16 04:19 PM
L178	19884	((customi$4 OR unique OR specific) near5 (webpage))	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY,	OR	ON	ON	2023/12/16 04:19 PM

			CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)				
L179	6	((recei$4 OR obtain$3) near4 (webpage) near8 (contact) near6 ("telephone number" OR "phone number"))	(US-PGPUB; USPAT)	OR	ON	ON	2023/12/16 04:20 PM
L180	4	(("micro website") near5 (ticket))	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/12/16 04:20 PM
L181	4	(("micro website") near11 (ticket))	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/12/16 04:21 PM
L182	7	((e$1commerce OR commerce OR "electronic commerce") near6 (micro OR mini OR small OR tiny OR miniscule) near8	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB,	OR	ON	ON	2023/12/16 04:21 PM

		(website OR webpage) near4 (link OR "url"))	HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)				
L183	8	177 AND 178	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/12/16 04:23 PM
L184	984	((micro OR mini OR small OR tiny OR miniscule) near8 (website OR webpage) near4 (link OR "url"))	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/12/16 04:24 PM
L185	1	177 AND 184	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT;	OR	ON	ON	2023/12/16 04:24 PM

			IBM_TDB)				
L186	24	184 AND ((H04M1/72445 OR H04M1/72436 OR H04W4/14 OR H04W4/20 OR H04W12/06).cpc.)	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/12/16 04:27 PM
L187	9035	((third OR addition$2) near8 (document OR page OR "web page") near6 (next OR another OR second OR target) near8 (number OR "telephone number" OR "phone number"))	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/12/16 04:28 PM
L188	4	186 AND 187	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/12/16 04:28 PM
L189	244	((host$3) near4 (field) near5 (includ$3 OR inclusi$2 OR inject$3 OR enter$2) near4 (document OR page))	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS,	OR	ON	ON	2024/02/08 01:21 PM

			IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)				
L190	0	((opt$1in OR "opt-in") near10 (user OR person OR individual) near5 ("telephone number" OR "phone number") near6 (subscribe OR join$3))	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/08 01:25 PM
L191	3	((opt$1in OR "opt-in") near5 ("telephone number" OR "phone number") near6 (subscribe OR join$3))	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/08 01:26 PM
L192	6	((opt$1in OR "opt-in") near5 (mobile OR "user equipment" OR "subscriber station" OR "UE" OR "PDA" OR smartphone) near6 (subscribe OR join$3))	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/08 01:31 PM

L193	303	((opt$1in OR "opt-in" OR option) near5 (mobile OR "user equipment" OR "subscriber station" OR "UE" OR "PDA" OR smartphone) near6 (subscribe OR join$3))	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/09 09:39 AM
L194	0	189 AND 193	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/09 09:42 AM
L195	8991	((host$3) near4 (field) near5 (includ$3 OR inclusi$2 OR inject$3 OR enter$2))	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/09 09:43 AM
L196	0	195 AND 193	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL,	OR	ON	ON	2024/02/09 09:43 AM

			NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)				
L197	81458	((opt$1in OR "opt-in" OR option) near5 (mobile OR "user equipment" OR "subscriber station" OR "UE" OR "PDA" OR smartphone))	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/09 09:44 AM
L198	75	195 AND 197	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/09 09:44 AM
L199	0	198 AND ((H04M1/72445 OR H04M1/72436 OR H04W4/14 OR H04W4/20 OR H04W12/06).cpc.)	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/09 09:45 AM
L200	0	198 AND	(US-PGPUB; USPAT;	OR	ON	ON	2024/02/09

		((H04M1/72445 OR H04M1/72436 OR H04W4/14 OR H04W4/20 OR H04W12/06 OR G06Q20/02 OR G06Q20/12 OR H04L63/0853 OR G06Q20/38 OR G06Q20/40 OR H04L63/18).cpc.)	USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)				09:47 AM
L201	25	189 AND ((H04M1/72445 OR H04M1/72436 OR H04W4/14 OR H04W4/20 OR H04W12/06 OR G06Q20/02 OR G06Q20/12 OR H04L63/0853 OR G06Q20/38 OR G06Q20/40 OR H04L63/18).cpc.)	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/09 09:48 AM
L202	4	((trigger$3 OR caus$3 OR prompt$3 OR provok$3) near4 ("third party") near5 ("pin code" OR "pin number"))	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/09 11:00 AM
L203	7	((trigger$3 OR caus$3 OR prompt$3 OR provok$3) near4 ("third party") near5 ("pin") near4 (number OR code))	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL,	OR	ON	ON	2024/02/09 11:02 AM

			PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)				
L204	39465	((trigger$3 OR caus$3 OR prompt$3 OR provok$3) near4 ("third party"))	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/09 11:33 AM
L205	299	163 AND 204	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/09 11:35 AM
L206	0	26 AND 32	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/13 11:57 AM
L207	3	((activ$6 OR action$4) near4 (item OR	(US-PGPUB; USPAT; USOCR; FIT (AU, AP,	OR	ON	ON	2024/02/22 11:16 AM

		component OR feature OR element OR unit OR part) near4 (e$1commerce OR ecommerce OR e-commerce) near5 ("micro website" OR "micro link" OR link OR weblink))	AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)				
L208	4351	((e$1commerce OR ecommerce OR e-commerce) near5 ("micro website" OR "micro link" OR link OR weblink))	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/22 11:18 AM
L209	709	((activ$6 OR action$4) near4 (item OR component OR feature OR element OR unit OR part) near5 (select$3 OR choos$3 OR pick$3) near4(transaction))	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/22 11:21 AM
L210	0	209 AND 208	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE,	OR	ON	ON	2024/02/22 11:21 AM

			SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)				
L211	11838	((activ$6 OR action$4) near4 (item OR component OR feature OR element OR unit OR part) near4(transaction))	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/22 11:23 AM
L212	133	211 AND 208	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/22 11:23 AM
L213	27	212 AND ((H04M1/72445 OR H04M1/72436 OR H04W4/14 OR H04W4/20 OR H04W12/06 OR G06Q20/02 OR G06Q20/12 OR H04L63/0853 OR G06Q20/38 OR G06Q20/40 OR H04L63/18).cpc.)	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/22 11:26 AM
L214	13536	((activ$6 OR action$4) near4 (item OR component OR feature	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY,	OR	ON	ON	2024/02/22 11:18 AM

		OR element OR unit OR part) near5 (transaction))	CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)				
L215	1599	((opt$1in OR "opt-in" OR option) near5 (verificat$3 ort verify OR confirm$6) NEAR (message OR text OR SMS))	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/02/23 10:55 AM
L216	11	((e$1commerce OR commerce OR "electronic commerce") near8 (micro OR mini OR small OR tiny OR miniscule) near8 (website OR webpage) near4 (link OR "url"))	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/23 10:57 AM
L217	22133	((customi$4 OR unique OR specific) near6 (webpage))	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH,	OR	ON	ON	2024/02/23 10:58 AM

			TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)				
L218	100664	((customi$4 OR unique OR specific) near6 (webpage OR "web page"))	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/23 10:58 AM
L219	385	((e$1commerce OR commerce OR "electronic commerce") near8 (micro OR mini OR small OR tiny OR miniscule) near8 (website OR webpage))	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/23 10:59 AM
L220	52	218 AND 219	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/23 10:59 AM
L221	9	220 AND ((H04M1/72445 OR H04M1/72436 OR H04W4/14 OR	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU,	OR	ON	ON	2024/02/23 10:59 AM

		H04W4/20 OR H04W12/06 OR G06Q20/02 OR G06Q20/12 OR H04L63/0853 OR G06Q20/38 OR G06Q20/40 OR H04L63/18).cpc.)	CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)				
L222	1074	((customi$4 OR unique OR specific) near6 (webpage OR "web page") near5 (transaction OR exchange))	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/23 11:07 AM
L223	8	219 AND 222	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/23 11:07 AM
L224	275	222 AND ((H04M1/72445 OR H04M1/72436 OR H04W4/14 OR H04W4/20 OR H04W12/06 OR G06Q20/02 OR G06Q20/12 OR H04L63/0853 OR G06Q20/38 OR G06Q20/40 OR H04L63/18).cpc.)	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN,	OR	ON	ON	2024/02/23 11:08 AM

			WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)				
L225	2	209 AND 224	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/23 11:09 AM
L226	8	((host$3) near4 (field) near4 (webpage) near5 ("third party"))	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/27 10:14 AM
L227	3480	((host$3) near4 (webpage) near5 ("third party"))	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/27 10:16 AM
L228	1351	((activ$6 OR live) near4 (input OR touch) near6 (indicat$3 OR notif$8 OR alert$3) near4 (message OR text OR	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA,	OR	ON	ON	2024/02/27 10:47 AM

		"SMS"))	EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)				
L229	0	227 AND 228	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/27 10:47 AM
L230	15068	((activ$6 OR live) near4 (input OR touch) near4 (message OR text OR "SMS"))	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/27 10:48 AM
L231	1	227 AND 230	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO;	OR	ON	ON	2024/02/27 10:48 AM

			JPO; DERWENT; IBM_TDB)				
L234	14851	((web$1page OR webpage) WITH ("third party"))	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/27 10:54 AM
L235	15	230 AND 234	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/27 10:55 AM
L236	0	235 AND ((H04M1/72445 OR H04M1/72436 OR H04W4/14 OR H04W4/20 OR H04W12/06 OR G06Q20/02 OR G06Q20/12 OR H04L63/0853 OR G06Q20/38 OR G06Q20/40 OR H04L63/18).cpc.)	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/27 11:11 AM
L237	98	208 AND 230	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB,	OR	ON	ON	2024/02/27 11:13 AM

			HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)				
L238	0	237 AND ((H04M1/72445 OR H04M1/72436 OR H04W4/14 OR H04W4/20 OR H04W12/06 OR G06Q20/02 OR G06Q20/12 OR H04L63/0853 OR G06Q20/38 OR G06Q20/40 OR H04L63/18).cpc.)	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/27 11:14 AM
L239	13988	((activ$6 OR live) near4 (input$3) near4 (message OR text OR "SMS"))	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/27 11:15 AM
L240	12	234 AND 239	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT;	OR	ON	ON	2024/02/27 11:15 AM

			IBM_TDB)				
L241	0	240 AND ((H04M1/72445 OR H04M1/72436 OR H04W4/14 OR H04W4/20 OR H04W12/06 OR G06Q20/02 OR G06Q20/12 OR H04L63/0853 OR G06Q20/38 OR G06Q20/40 OR H04L63/18).cpc.)	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/27 11:16 AM
L242	4228	((host$3 OR customer OR proprietor OR owner) near4 (webpage OR document) near5 ("third party"))	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/27 11:23 AM
L243	17264	((activ$6 OR live OR hyperlink) near4 (input$3) near4 (message OR text OR "SMS"))	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/27 11:24 AM
L244	3	242 AND 243	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS,	OR	ON	ON	2024/02/27 11:24 AM

			IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)				
L245	19085	((activ$6 OR live OR hyperlink) near4 (input$3) near5 (message OR text OR "SMS"))	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/09 10:16 AM
L246	42	((indica$4 OR willing$4 OR readiness OR eager$4 OR consent OR author$4) near4 (recei$4 OR obtain$4) near4 ("one "or" more" OR multiple OR many OR alot OR plural$4 OR several) near5 ("SMS" OR "short message service"))	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/09 10:25 AM
L247	4341	((host$3 OR customer OR proprietor OR owner) near4 (webpage OR document) near6 ("third party"))	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/09 10:27 AM

L248	1668	((e$1commerce OR commerce OR "electronic commerce") near6 (transaction OR exachange OR sale) near4 (ticket OR event))	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/09 10:30 AM
L249	66	245 AND 248	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/09 10:31 AM
L250	15	249 AND ((H04M1/72445 OR H04M1/72436 OR H04W4/14 OR H04W4/20 OR H04W12/06 OR G06Q20/02 OR G06Q20/12 OR H04L63/0853 OR G06Q20/38 OR G06Q20/40 OR H04L63/18).cpc.)	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/09 10:32 AM
L251	1328	((customi$4 OR unique OR specific) near7 (webpage OR "web page") near7 (transaction OR exchange))	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL,	OR	ON	ON	2024/05/18 02:09 PM

			NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)				
L252	3467	((activ$6 OR action$4) near4 (subscription OR service) near4 ("third party"))	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/18 02:54 PM
L253	842	((information OR data) near4(activ$6 OR action$4) near4 (subscription OR service) near4 ("third party"))	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/18 02:56 PM
L254	341895	((information OR data) near5 (keyword))	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/18 02:57 PM
L255	91	253 AND 254	(US-PGPUB; USPAT;	OR	ON	ON	2024/05/18

			USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)				02:57 PM
L256	7	255 AND ((H04M1/72445 OR H04M1/72436 OR H04W4/14 OR H04W4/20 OR H04W12/06 OR G06Q20/02 OR G06Q20/12 OR H04L63/0853 OR G06Q20/38 OR G06Q20/40 OR H04L63/18).cpc.)	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/18 02:57 PM
L257	717	((opt$1in OR "opt-in" OR option) near5 (verif$7) near5 (message OR text OR email))	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/18 03:00 PM
L258	1	253 AND 257	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL,	OR	OFF	OFF	2024/05/18 03:09 PM

			PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)				
L259	3	252 AND 257	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/05/18 03:09 PM
L260	82	((activ$6 OR action$4) near4 (item OR component OR feature OR element OR unit OR part) near7 (e$1commerce OR ecommerce OR e-commerce) near7 ("micro website" OR "micro link" OR link OR weblink))	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/18 03:13 PM
L261	2	260 AND 257	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/18 03:14 PM
L262	114	((recei$3 OR obtain$3) near5 (information OR	(US-PGPUB; USPAT; USOCR; FIT (AP, AT,	OR	ON	ON	2024/05/18 03:30 PM

		data) near4 (trigger OR alert$3 OR notif$7) near5 (identi$8 OR "ID") near6 (user OR mobile OR individual) near6 (transaction OR exchange))	AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)				
L263	0	260 AND 262	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/18 03:35 PM
L264	17	262 AND ((H04M1/72445 OR H04M1/72436 OR H04W4/14 OR H04W4/20 OR H04W12/06 OR G06Q20/02 OR G06Q20/12 OR H04L63/0853 OR G06Q20/38 OR G06Q20/40 OR H04L63/18).cpc.)	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/18 03:50 PM
L265	1	((authent$6 OR author$7) near5 (cookie) near3 (keyword))	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE,	OR	ON	ON	2024/05/18 04:12 PM

			SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)				
L266	4	((authent$6 OR author$7) near5 (cookie) near10 (keyword))	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/18 04:13 PM
L267	13631	((authent$6 OR author$7) near5 (keyword))	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/18 04:13 PM
L268	0	264 AND 267	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/05/18 04:14 PM
L269	1	262 AND 267	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY,	OR	ON	ON	2024/05/18 04:14 PM

			CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)				
L270	0	((recei$3 OR obtain$3) near5 (information OR data) near4 (trigger OR alert$3 OR notif$7 OR indicat$3) near5 (activ$8) near6 (host$2) near6 (webpage OR "third party"))	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/06/10 09:38 AM
L271	200	((recei$3 OR obtain$3) near5 (information OR data) near4 (trigger OR alert$3 OR notif$7 OR indicat$3) near5 (activ$8) near6 (host$2))	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/06/10 09:38 AM
L272	6	271 AND ((H04M1/72445 OR H04M1/72436 OR H04W4/14 OR H04W4/20 OR H04W12/06 OR G06Q20/02 OR G06Q20/12 OR H04L63/0853 OR G06Q20/38 OR G06Q20/40 OR H04L63/18).cpc.)	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH,	OR	ON	ON	2024/06/10 09:39 AM

			TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)				
L273	22	((opt$1in OR "opt-in" OR option) near5 (verif$7 OR enabl$3) near5 (message OR text OR email OR SMS) near7 ("third party" OR webpage))	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	OFF	OFF	2024/06/10 11:54 AM
L274	1	273 AND ((H04M1/72445 OR H04M1/72436 OR H04W4/14 OR H04W4/20 OR H04W12/06 OR G06Q20/02 OR G06Q20/12 OR H04L63/0853 OR G06Q20/38 OR G06Q20/40 OR H04L63/18).cpc.)	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/06/10 11:56 AM
L275	12	((e$1commerce OR commerce OR "electronic commerce") near6 (micro OR mini OR small OR tiny OR miniscule) near9 (website OR webpage) near4 (link OR "url"))	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/06/10 02:54 PM
L276	127	((one OR more OR many OR plurality OR multiple) near5 (transaction OR	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU,	OR	ON	ON	2024/06/10 03:01 PM

		exchange) near7 (e$1commerce OR commerce OR "electronic commerce") near6 (event OR ticket))	CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)				
L277	12	276 AND ((H04M1/72445 OR H04M1/72436 OR H04W4/14 OR H04W4/20 OR H04W12/06 OR G06Q20/02 OR G06Q20/12 OR H04L63/0853 OR G06Q20/38 OR G06Q20/40 OR H04L63/18).cpc.)	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/06/10 03:02 PM
L278	10	((trigger$3 OR caus$3 OR prompt$3 OR provok$3) near4 ("third party") near6 (pin) near3 (code))	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/06/11 08:07 AM
L279	0	((SMS) near6(e$1commerce OR commerce OR "electronic commerce") near6 (micro OR mini OR small OR tiny OR miniscule) near9 (website OR webpage) near4 (link OR "url"))	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN,	OR	ON	ON	2024/06/11 08:13 AM

			WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)				
L280	0	((SMS) near6(e$1commerce OR commerce OR "electronic commerce") near6 (micro OR mini OR small OR tiny OR miniscule) near9 (website OR webpage))	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/06/11 08:13 AM
L281	2	278 AND ((H04M1/72445 OR H04M1/72436 OR H04W4/14 OR H04W4/20 OR H04W12/06 OR G06Q20/02 OR G06Q20/12 OR H04L63/0853 OR G06Q20/38 OR G06Q20/40 OR H04L63/18).cpc.)	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/06/11 08:17 AM
L282	6	271 AND ((H04M1/72445 OR H04M1/72436 OR H04W4/14 OR H04W4/20 OR H04W12/06 OR G06Q20/02 OR G06Q20/12 OR H04L63/0853 OR G06Q20/38 OR G06Q20/40 OR H04L63/18).cpc.)	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/06/11 08:18 AM
L283	10	"17279188"	(US-PGPUB; USPAT)	OR	ON	ON	2024/10/31 01:06 PM
L284	17724	((recei$3 OR obtain$3) near5 (request$3 OR inquir$4) near4 (content	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY,	OR	ON	ON	2024/10/31 01:47 PM

		OR data OR informa$4) near5 (author$7 OR secure OR warrant$2 OR certif$4 OR approv$3) near5 (subscriber OR recipient OR user))	CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)				
L285	2203	((generat$4 OR creat$3 OR initiat$3 OR formulat$3) near4 (customiz$3 OR specializ$3) near4 (message OR text) near7 (content OR information OR data))	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/10/31 01:52 PM
L286	18	284 AND 285	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/10/31 01:52 PM
L287	5	286 AND ((H04M1/72445 OR H04M1/72436 OR H04W4/14 OR H04W4/20 OR H04W12/06 OR G06Q20/02 OR G06Q20/12 OR H04L63/0853 OR G06Q20/38 OR G06Q20/40 OR H04L63/18).cpc.)	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH,	OR	ON	ON	2024/10/31 01:53 PM

			TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)				
L288	15059	((transmis$8 OR send$3 OR forward$3) near5 (customi$4 OR unique OR specific) near6 (message OR text) near4 (mobile OR "user equipment" OR terminal OR smartphone OR "subscriber station"))	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/11/01 10:12 AM
L289	37	284 AND 288	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/11/01 10:21 AM
L290	8	289 AND ((H04M1/72445 OR H04M1/72436 OR H04W4/14 OR H04W4/20 OR H04W12/06).cpc.)	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/11/01 10:25 AM
L291	4	286 AND ((H04M1/72445 OR H04M1/72436 OR H04W4/14 OR	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU,	OR	ON	ON	2024/11/01 10:26 AM

		H04W4/20 OR H04W12/06).cpc.)	CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)				
L293	210	((generat$4 OR creat$3 OR initiat$3 OR formulat$3) near4 (customiz$3 OR specializ$3) near4 (message OR text) near7 (content OR information OR data) near6 (action OR transaction OR event))	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/11/01 12:26 PM
L294	10	293 AND ((H04M1/72445 OR H04M1/72436 OR H04W4/14 OR H04W4/20 OR H04W12/06).cpc.)	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/11/01 12:27 PM
L295	127997	((recei$3 OR obtain$3) near5 (information OR data) near4 (trigger OR alert$3 OR notif$7 OR indicat$3) near6 (activ$8 OR select$4 OR choos$4 OR pick$3))	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN,	OR	ON	ON	2024/11/01 12:48 PM

			WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)				
L296	1	293 AND 295	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/11/01 12:49 PM
L297	3	((generat$4 OR creat$3 OR initiat$3 OR formulat$3) near4 (customiz$3 OR specializ$3) near4 (message OR text) near7 (content OR information OR data) near6(activ$8 OR select$4 OR choos$4 OR pick$3) near8(action OR transaction OR event))	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/11/01 12:52 PM
L298	2274858	((recei$3 OR obtain$3) near5 (information OR data) near4 (trigger OR alert$3 OR notif$7 OR indicat$3))	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/11/01 12:57 PM
L299	550030	((content OR information OR data) near6(activ$8 OR select$4 OR choos$4 OR pick$3)	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA,	OR	ON	ON	2024/11/01 12:59 PM

		near8(action OR transaction OR event))	EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)				
L300	102701	298 AND 299	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/11/01 12:59 PM
L301	4454	((recei$3 OR obtain$3) near5 (information OR data) near4 (trigger OR alert$3 OR notif$7 OR indicat$3) near6 (activ$8 OR select$4 OR choos$4 OR pick$3) near4 (action OR transaction OR event))	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/11/01 01:03 PM
L302	2	284 AND 301	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO;	OR	ON	ON	2024/11/01 01:05 PM

			JPO; DERWENT; IBM_TDB)				
L303	891	((generat$3 OR creat$3 OR initiat$3) near4 ("rich communication service" OR RCS) near4 (message OR text))	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/11/01 01:31 PM
L304	0	301 AND 303	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/11/01 01:33 PM
L305	0	293 AND 303	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/11/01 01:34 PM
L306	70	303 AND ((H04M1/72445 OR H04M1/72436 OR H04W4/14 OR H04W4/20 OR H04W12/06).cpc.)	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB,	OR	ON	ON	2024/11/01 01:35 PM

			HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)				
L307	0	300 AND 306	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/11/01 01:35 PM
L308	0	284 AND 306	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/11/01 01:36 PM
L309	217	((schedul$4 OR organiz$4 OR arrang$3) near4 ("machine learning model" OR "software model") near5 (classif$7 OR assort$4 OR order OR group$3 OR designation))	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT;	OR	ON	ON	2024/11/01 01:43 PM

			IBM_TDB)				
L310	0	303 AND 309	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/11/01 01:43 PM
L311	3586	((schedul$4 OR organiz$4 OR arrang$3) near4 ("machine learning model" OR "software model"))	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/11/01 01:44 PM
L312	0	303 AND 311	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/11/01 01:44 PM
L313	23	311 AND ((H04M1/72445 OR H04M1/72436 OR H04W4/14 OR H04W4/20 OR H04W12/06).cpc.)	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS,	OR	ON	ON	2024/11/01 01:44 PM

			IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)				
L314	19	((generat$4 OR creat$3 OR initiat$3 OR formulat$3) near4 (customiz$3 OR specializ$3) near4 (message OR text) near7 (content OR information OR data) near6 (action OR transaction OR event)).clm.	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/11/01 11:41 PM
L315	0	309 AND ((H04M1/72445 OR H04M1/72436 OR H04W4/14 OR H04W4/20 OR H04W12/06).cpc.)	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/11/02 11:28 AM

PE2E SEARCH - Search History (Interference)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	British Equivalents	Time Stamp
N1	314	((third OR addition$2) near4 (document OR page OR "web page") near6 (next OR another OR second OR target) near8 (number OR "telephone number" OR "phone number")).clm.	(US-PGPUB; USPAT)	OR	ON	ON	2023/05/04 03:16 PM
N2	2	1 AND ((H04M1/72445 OR H04M1/72436 OR	(US-PGPUB; USPAT)	OR	ON	ON	2023/05/04 03:17 PM

		H04W4/14 OR H04W4/20 OR H04W12/06 OR G06Q20/02 OR G06Q20/12 OR H04L63/0853 OR G06Q20/38 OR G06Q20/40 OR H04L63/18).cpc.)					
N3	2	((subscription) near6 (request OR demand OR inquir$4) near4(next OR another OR second OR target) near8 (associat$3 OR peer OR friend OR partner) near6 (number OR "telephone number" OR "phone number")).clm.	(US-PGPUB; USPAT)	OR	ON	ON	2023/07/10 08:17 AM
N4	386	((generat$4 OR creat$3 OR initiat$3 OR formulat$3) near4 (second OR another OR other OR addition$2) near4 (document OR paper OR record OR report OR paper OR page) near6 (event)).clm.	(US-PGPUB; USPAT)	OR	ON	ON	2023/07/10 08:18 AM
N6	0	("Andrew Lewin").in.	(US-PGPUB; USPAT)	OR	ON	ON	2023/07/10 12:35 PM
N7	36	("lewin andrew").in.	(US-PGPUB; USPAT)	OR	ON	ON	2023/07/10 12:38 PM
N10	1	("wright aidan").in.	(US-PGPUB; USPAT)	OR	ON	ON	2023/07/10 12:42 PM
N11	0	4 AND 7	(US-PGPUB; USPAT)	OR	ON	ON	2023/07/10 12:43 PM
N12	8	((secur$4 OR authen$8 OR safe OR trust$2) near4 (information OR data) near5 (activat$3 OR active OR enabl$3) near4 (webpage)).clm.	(US-PGPUB; USPAT)	OR	ON	ON	2023/12/02 02:24 PM
N13	863	((customi$4 OR unique OR specific) near4 (webpage)).clm.	(US-PGPUB; USPAT)	OR	ON	ON	2023/12/02 02:24 PM
N14	8	((content) near4 (webpage) near8 ("telephone number" OR "phone number")).clm.	(US-PGPUB; USPAT)	OR	ON	ON	2023/12/02 02:25 PM
N15	2	((recei$4 OR obtain$3) near4 (content) near4 (webpage) near8	(US-PGPUB; USPAT)	OR	ON	ON	2023/12/02 02:25 PM

		("telephone number" OR "phone number")).clm.					
N16	1456	((generat$4 OR creat$3 OR initiat$3 OR formulat$3) near4 ("PIN code" OR "PIN number" OR number OR pin) near4 (transaction OR exchange)).clm.	(US-PGPUB; USPAT)	OR	ON	ON	2023/12/02 02:27 PM
N17	24	((recei$4 OR obtain$3) near4 (information OR data) near4 (activ$7 OR open$2 OR access$4) near4 (field OR area) near4 (document OR page)).clm.	(US-PGPUB; USPAT)	OR	ON	ON	2023/12/02 02:28 PM
N18	0	16 AND 17	(US-PGPUB; USPAT)	OR	ON	ON	2023/12/02 02:28 PM
N19	6	13 AND 16	(US-PGPUB; USPAT)	OR	ON	ON	2023/12/02 02:29 PM
N20	3	("wright aidan").in.	(US-PGPUB; USPAT)	OR	ON	ON	2023/12/02 02:30 PM
N21	39	("lewin andrew ").in.	(US-PGPUB; USPAT)	OR	ON	ON	2023/12/02 02:31 PM
N24	3	21 AND ((H04M1/72445 OR H04M1/72436 OR H04W4/14 OR H04W4/20 OR H04W12/06 OR G06Q20/02 OR G06Q20/12 OR H04L63/0853 OR G06Q20/38 OR G06Q20/40 OR H04L63/18).cpc.)	(US-PGPUB; USPAT)	OR	ON	ON	2023/12/02 02:32 PM
N25	2289	((opt$1in OR "opt-in" OR option) near5 (mobile OR "user equipment" OR "subscriber station" OR "UE" OR "PDA" OR smartphone)).clm.	(US-PGPUB; USPAT)	OR	OFF	OFF	2024/02/13 11:24 AM
N26	314	((host$3) near4 (field) near5 (includ$3 OR inclusi$2 OR inject$3 OR enter$2)).clm.	(US-PGPUB; USPAT)	OR	ON	ON	2024/02/13 11:24 AM
N27	1	25 AND 26	(US-PGPUB; USPAT)	OR	ON	ON	2024/02/13 11:25 AM
N28	0	((trigger$3 OR caus$3 OR prompt$3 OR provok$3) near4 ("third party") near5 ("pin") near4 (number OR	(US-PGPUB; USPAT)	OR	ON	ON	2024/02/13 11:41 AM

		code)).clm.					
N29	2015	((trigger$3 OR caus$3 OR prompt$3 OR provok$3) near4 ("third party")).clm.	(US-PGPUB; USPAT)	OR	ON	ON	2024/02/13 11:42 AM
N30	261	29 AND ((H04M1/72445 OR H04M1/72436 OR H04W4/14 OR H04W4/20 OR H04W12/06 OR G06Q20/02 OR G06Q20/12 OR H04L63/0853 OR G06Q20/38 OR G06Q20/40 OR H04L63/18).cpc.)	(US-PGPUB; USPAT)	OR	ON	ON	2024/02/13 11:42 AM
N31	2	((recei$4 OR obtain$3) near5 (content) near5 (webpage) near8 ("telephone number" OR "phone number")).clm.	(US-PGPUB; USPAT)	OR	ON	ON	2024/02/13 11:44 AM
N32	988	((customi$4 OR unique OR specific) near5 (webpage)).clm.	(US-PGPUB; USPAT)	OR	ON	ON	2024/02/13 11:56 AM
N33	3	26 AND 32	(US-PGPUB; USPAT)	OR	ON	ON	2024/02/13 11:57 AM
N34	5	((trigger$3 OR caus$3 OR prompt$3 OR provok$3) near4 ("third party") near5 ("pin")).clm.	(US-PGPUB; USPAT)	OR	ON	ON	2024/02/13 12:16 PM
N35	261	30 AND ((H04M1/72445 OR H04M1/72436 OR H04W4/14 OR H04W4/20 OR H04W12/06 OR G06Q20/02 OR G06Q20/12 OR H04L63/0853 OR G06Q20/38 OR G06Q20/40 OR H04L63/18).cpc.)	(US-PGPUB; USPAT)	OR	ON	ON	2024/02/13 01:41 PM
N36	6	("wright aidan ").in.	(US-PGPUB; USPAT)	OR	ON	ON	2024/02/13 01:52 PM
N37	42	("lewin andrew ").in.	(US-PGPUB; USPAT)	OR	ON	ON	2024/02/13 01:52 PM
N38	0	("Andrew Lewin ").in.	(US-PGPUB; USPAT)	OR	ON	ON	2024/02/13 01:52 PM
N39	7	("Spindler Sacha ").in.	(US-PGPUB; USPAT)	OR	ON	ON	2024/02/13 01:54 PM
N40	6	37 AND 39	(US-PGPUB; USPAT)	OR	ON	ON	2024/02/13 01:54 PM

N41	6	36 AND 40	(US-PGPUB; USPAT)	OR	ON	ON	2024/02/13 01:55 PM
N42	51	((customi$4 OR unique OR specific) near7 (webpage OR "web page") near7 (transaction OR exchange)).clm.	(US-PGPUB; USPAT)	OR	ON	ON	2024/05/18 04:20 PM
N43	155	((activ$6 OR action$4) near4 (subscription OR service) near4 ("third party")).clm.	(US-PGPUB; USPAT)	OR	ON	ON	2024/05/18 04:21 PM
N44	33	((information OR data) near4(activ$6 OR action$4) near4 (subscription OR service) near4 ("third party")).clm.	(US-PGPUB; USPAT)	OR	ON	ON	2024/05/18 04:21 PM
N45	31	((opt$1in OR "opt-in" OR option) near5 (verif$7) near5 (message OR text OR email)).clm.	(US-PGPUB; USPAT)	OR	OFF	OFF	2024/05/18 04:22 PM
N46	2	((activ$6 OR action$4) near4 (item OR component OR feature OR element OR unit OR part) near7 (e$1commerce OR ecommerce OR e-commerce) near7 ("micro website" OR "micro link" OR link OR weblink)).clm.	(US-PGPUB; USPAT)	OR	ON	ON	2024/05/18 04:23 PM
N47	7	((recei$3 OR obtain$3) near5 (information OR data) near4 (trigger OR alert$3 OR notif$7) near5 (identi$8 OR "ID") near6 (user OR mobile OR individual) near6 (transaction OR exchange)).clm.	(US-PGPUB; USPAT)	OR	ON	ON	2024/05/18 04:24 PM
N48	0	((authent$6 OR author$7) near5 (cookie) near10 (keyword)).clm.	(US-PGPUB; USPAT)	OR	ON	ON	2024/05/18 04:25 PM
N49	1	42 AND 43	(US-PGPUB; USPAT)	OR	ON	ON	2024/05/18 04:29 PM
N50	1	44 AND 45	(US-PGPUB; USPAT)	OR	ON	ON	2024/05/18 04:30 PM
N51	0	47 AND ((H04M1/72445 OR H04M1/72436 OR H04W4/14 OR	(US-PGPUB; USPAT)	OR	ON	ON	2024/05/18 04:31 PM

		H04W4/20 OR H04W12/06 OR G06Q20/02 OR G06Q20/12 OR H04L63/0853 OR G06Q20/38 OR G06Q20/40 OR H04L63/18).cpc.)					
N52	10	45 AND ((H04M1/72445 OR H04M1/72436 OR H04W4/14 OR H04W4/20 OR H04W12/06 OR G06Q20/02 OR G06Q20/12 OR H04L63/0853 OR G06Q20/38 OR G06Q20/40 OR H04L63/18).cpc.)	(US-PGPUB; USPAT)	OR	ON	ON	2024/05/18 04:32 PM
N53	9	("Spindler Sacha").in.	(US-PGPUB; USPAT)	OR	ON	ON	2024/05/18 04:34 PM
N54	8	("wright aidan").in.	(US-PGPUB; USPAT)	OR	ON	ON	2024/05/18 04:35 PM
N55	44	("lewin andrew").in.	(US-PGPUB; USPAT)	OR	ON	ON	2024/05/18 04:36 PM
N56	8	53 AND 54	(US-PGPUB; USPAT)	OR	ON	ON	2024/05/18 04:36 PM
N57	8	55 AND 56	(US-PGPUB; USPAT)	OR	ON	ON	2024/05/18 04:37 PM
N58	14	((recei$3 OR obtain$3) near5 (information OR data) near4 (trigger OR alert$3 OR notif$7 OR indicat$3) near5 (activ$8) near6 (host$2)).clm.	(US-PGPUB; USPAT)	OR	ON	ON	2024/06/11 08:20 AM
N59	0	((opt$1in OR "opt-in" OR option) near5 (verif$7 OR enabl$3) near5 (message OR text OR email OR SMS) near7 ("third party" OR webpage)).clm.	(US-PGPUB; USPAT)	OR	OFF	OFF	2024/06/11 08:29 AM
N60	3	((e$1commerce OR commerce OR "electronic commerce") near6 (micro OR mini OR small OR tiny OR miniscule) near9 (website OR webpage) near4 (link OR "url")).clm.	(US-PGPUB; USPAT)	OR	ON	ON	2024/06/11 08:30 AM
N61	15	((one OR more OR many OR plurality OR	(US-PGPUB; USPAT)	OR	ON	ON	2024/06/11 08:30 AM

		multiple) near5 (transaction OR exchange) near7 (e$1commerce OR commerce OR "electronic commerce") near6 (event OR ticket)).clm.					
N62	7	61 AND ((H04M1/72445 OR H04M1/72436 OR H04W4/14 OR H04W4/20 OR H04W12/06 OR G06Q20/02 OR G06Q20/12 OR H04L63/0853 OR G06Q20/38 OR G06Q20/40 OR H04L63/18).cpc.)	(US-PGPUB; USPAT)	OR	ON	ON	2024/06/11 08:36 AM
N63	44	("lewin andrew ").in.	(US-PGPUB; USPAT)	OR	ON	ON	2024/06/11 08:37 AM
N64	8	("wright aidan ").in.	(US-PGPUB; USPAT)	OR	ON	ON	2024/06/11 08:38 AM
N65	9	("Spindler Sacha").in.	(US-PGPUB; USPAT)	OR	ON	ON	2024/06/11 08:38 AM
N66	8	63 AND 64	(US-PGPUB; USPAT)	OR	ON	ON	2024/06/11 08:39 AM
N67	8	65 AND 66	(US-PGPUB; USPAT)	OR	ON	ON	2024/06/11 08:39 AM
N68	18	"20040230536"	(US-PGPUB; USPAT)	OR	OFF	OFF	2024/06/11 08:44 AM
N69	7	"20190141039"	(US-PGPUB; USPAT)	OR	OFF	OFF	2024/06/11 08:44 AM
N70	763	((recei$3 OR obtain$3) near5 (request$3 OR inquir$4) near4 (content OR data OR informa$4) near5 (author$7 OR secure OR warrant$2 OR certif$4 OR approv$3) near5 (subscriber OR recipient OR user)).clm.	(US-PGPUB; USPAT)	OR	ON	ON	2024/11/01 11:38 PM
N71	988	((generat$4 OR creat$3 OR initiat$3 OR formulat$3) near4 (customiz$3 OR specializ$3) near4 (message OR text) near7 (content OR information OR data)).clm	(US-PGPUB; USPAT)	OR	ON	ON	2024/11/01 11:38 PM
N72	0	70 AND 71	(US-PGPUB; USPAT)	OR	ON	ON	2024/11/01 11:39 PM

N73	291	((transmis$8 OR send$3 OR forward$3) near5 (customi$4 OR unique OR specific) near6 (message OR text) near4 (mobile OR "user equipment" OR terminal OR smartphone OR "subscriber station")).clm.	(US-PGPUB; USPAT)	OR	ON	ON	2024/11/01 11:40 PM
N74	0	70 AND 73	(US-PGPUB; USPAT)	OR	ON	ON	2024/11/01 11:41 PM
N75	50	73 AND ((H04M1/72445 OR H04M1/72436 OR H04W4/14 OR H04W4/20 OR H04W12/06).cpc.)	(US-PGPUB; USPAT)	OR	ON	ON	2024/11/01 11:43 PM
N77	0	76 AND ((H04M1/72445 OR H04M1/72436 OR H04W4/14 OR H04W4/20 OR H04W12/06).cpc.)	(US-PGPUB; USPAT)	OR	ON	ON	2024/11/01 11:44 PM
N78	7	((generat$4 OR creat$3 OR initiat$3 OR formulat$3) near4 (customiz$3 OR specializ$3) near4 (message OR text) near7 (content OR information OR data) near6 (action OR transaction OR event)).clm.	(US-PGPUB; USPAT)	OR	ON	ON	2024/11/01 11:44 PM
N79	25271	((verify$3 OR check$3 OR authentica$4 OR corroborat$3 OR certify$3 OR substantiat$3 OR confirm$3 OR validat$4) near4 (data OR information) near5 (correlat$3 OR correspond$3 OR compar$4 OR equat$3 OR coordinat$3) near5 (identi$8 OR name OR character OR mobile OR smartphone OR "user equipment" OR terminal OR "user device" OR laptop))	(US-PGPUB; USPAT)	OR	ON	ON	2024/11/02 08:11 AM
N80	10	((schedul$4 OR organiz$4 OR arrang$3) near4 ("machine learning	(US-PGPUB; USPAT)	OR	ON	ON	2024/11/02 08:13 AM

		model" OR "software model") near5 (classif$7 OR assort$4 OR order OR group$3 OR designation)).clm.					
N81	39	((generat$3 OR creat$3 OR initiat$3) near4 ("rich communication service" OR RCS) near4 (message OR text)).clm.	(US-PGPUB; USPAT)	OR	ON	ON	2024/11/02 08:13 AM
N82	0	79 AND 81	(US-PGPUB; USPAT)	OR	ON	ON	2024/11/02 08:14 AM
N83	0	71 AND 79	(US-PGPUB; USPAT)	OR	ON	ON	2024/11/02 08:15 AM
N84	8	81 AND ((H04M1/72445 OR H04M1/72436 OR H04W4/14 OR H04W4/20 OR H04W12/06).cpc.)	(US-PGPUB; USPAT)	OR	ON	ON	2024/11/02 08:15 AM
N85	310	"6101486"	(US-PGPUB; USPAT)	OR	ON	ON	2024/11/02 10:18 AM
N86	30	"7197324"	(US-PGPUB; USPAT)	OR	ON	ON	2024/11/02 10:19 AM
N88	11	"8131258"	(US-PGPUB; USPAT)	OR	ON	ON	2024/11/02 10:21 AM
N89	9	"8195509"	(US-PGPUB; USPAT)	OR	ON	ON	2024/11/02 10:23 AM
N90	9	"9053189"	(US-PGPUB; USPAT)	OR	ON	ON	2024/11/02 10:24 AM
N91	7	"9143831"	(US-PGPUB; USPAT)	OR	ON	ON	2024/11/02 10:24 AM
N92	13	"10122824"	(US-PGPUB; USPAT)	OR	ON	ON	2024/11/02 10:25 AM
N93	10	"11158009"	(US-PGPUB; USPAT)	OR	ON	ON	2024/11/02 10:27 AM
N94	22	"20040230536"	(US-PGPUB; USPAT)	OR	ON	ON	2024/11/02 10:27 AM
N95	33	"20070174448"	(US-PGPUB; USPAT)	OR	ON	ON	2024/11/02 10:28 AM
N96	4	"20070288323"	(US-PGPUB; USPAT)	OR	ON	ON	2024/11/02 10:29 AM
N97	8	"20110218880"	(US-PGPUB; USPAT)	OR	ON	ON	2024/11/02 10:30 AM
N98	22	"20120203605"	(US-PGPUB; USPAT)	OR	ON	ON	2024/11/02 10:32 AM
N99	8	"20130080319"	(US-PGPUB; USPAT)	OR	ON	ON	2024/11/02 10:34 AM
N100	5	"20140187197"	(US-PGPUB; USPAT)	OR	ON	ON	2024/11/02 10:35 AM
N101	9	"20170295414"	(US-PGPUB; USPAT)	OR	ON	ON	2024/11/02

							10:37 AM
N102	10	"20170256007"	(US-PGPUB; USPAT)	OR	ON	ON	2024/11/02 10:38 AM
N103	5	"20230077942"	(US-PGPUB; USPAT)	OR	ON	ON	2024/11/02 10:40 AM
N104	10	"20190141039"	(US-PGPUB; USPAT)	OR	ON	ON	2024/11/02 10:40 AM
N105	9	"20180103004"	(US-PGPUB; USPAT)	OR	ON	ON	2024/11/02 10:42 AM
N106	7	"20180005263"	(US-PGPUB; USPAT)	OR	ON	ON	2024/11/02 10:45 AM
N107	11	("Spindler Sacha").in.	(US-PGPUB; USPAT)	OR	ON	ON	2024/11/02 10:48 AM
N108	10	("Wright Aidan").in.	(US-PGPUB; USPAT)	OR	ON	ON	2024/11/02 10:48 AM
N109	10	107 AND 108	(US-PGPUB; USPAT)	OR	ON	ON	2024/11/02 10:49 AM
N110	0	"18896197"	(US-PGPUB; USPAT)	OR	ON	ON	2024/11/02 10:52 AM

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

BIB DATA SHEET

CONFIRMATION NO. 2568

SERIAL NUMBER	FILING or 371(c) DATE	CLASS	GROUP ART UNIT	ATTORNEY DOCKET NO.
18/896,197	09/25/2024 RULE	455	2647	0053-700.500

APPLICANTS
IQX CORP., Carson City, NV;

INVENTORS
Sacha Spindler, Prague 8, CZECHIA;
Aidan Wright, Tigard, OR;

**** CONTINUING DATA ***************************
This application is a CIP of 18/483,670 10/10/2023 PAT 12126752
which is a CON of 18/193,163 03/30/2023 PAT 11876924
which is a CON of 17/279,188 03/24/2021 PAT 11765262
which is a 371 of PCT/US19/52847 09/25/2019
which claims benefit of 62/737,315 09/27/2018

**** FOREIGN APPLICATIONS ***************************

**** IF REQUIRED, FOREIGN FILING LICENSE GRANTED **** ** SMALL ENTITY **
10/02/2024

		STATE OR COUNTRY	SHEETS DRAWINGS	TOTAL CLAIMS	INDEPENDENT CLAIMS
Foreign Priority claimed ☐ Yes ☑ No 35 USC 119(a-d) conditions met ☐ Yes ☑ No Verified and Acknowledged /JOSEPH E DEAN, JR/ Examiner's Signature	☐ Met after Allowance JD Initials	NV	18	20	3

ADDRESS
Aurora Consulting LLC
Ashley Sloat
810 Cottageview Dr.
Ste. G10
Traverse City, MI 49684
UNITED STATES

TITLE
AUTOMATED SILENT NETWORK AUTHENTICATION PROTOCOL SECURITY, VERIFICATION, AND ACCESS CONTROL FOR CELLULAR HANDHELD DEVICES

FILING FEE RECEIVED		
0.00	FEES: Authority has been given in Paper No._____ to charge/credit DEPOSIT ACCOUNT No._____ for following:	☐ All Fees ☐ 1.16 Fees (Filing) ☐ 1.17 Fees (Processing Ext. of time) ☐ 1.18 Fees (Issue) ☐ Other _____ ☐ Credit

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.
18/896,197	09/25/2024	Sacha Spindler	0053-700.500	2568

105822 7590 10/28/2024
Aurora Consulting LLC
Ashley Sloat
810 Cottageview Dr.
Ste. G10
Traverse City, MI 49684

EXAMINER
DEAN, JR, JOSEPH E

ART UNIT	PAPER NUMBER
2647	

NOTIFICATION DATE	DELIVERY MODE
10/28/2024	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):

paralegal@aurorapatents.com

Decision Granting Request for Prioritized Examination (Track I)	**Application No.** 18/896,197	**Applicant(s)** Spindler et al.	
	Examiner ANDREA SMITH	**Art Unit** OPET	**AIA (FITF) Status** Yes

1. THE REQUEST FILED 25 September 2024 IS **GRANTED** .

   The above-identified application has met the requirements for prioritized examination
   - A. ☑ for an original nonprovisional application (Track I).
   - B. ☐ for an application undergoing continued examination (RCE).

2. **The above-identified application will undergo prioritized examination**. The application will be accorded special status throughout its entire course of prosecution until one of the following occurs:
   - A. filing a **petition for extension of time** to extend the time period for filing a reply;
   - B. filing an **amendment to amend the application to contain more than four independent claims, more than thirty total claims** , or a multiple dependent claim;
   - C. filing a **request for continued examination** ;
   - D. filing a notice of appeal;
   - E. filing a request for suspension of action;
   - F. mailing of a notice of allowance;
   - G. mailing of a final Office action;
   - H. completion of examination as defined in 37 CFR 41.102; or
   - I. abandonment of the application.

Telephone inquiries with regard to this decision should be directed to ANDREA SMITH at (571)272-3226. In his/her absence, calls may be directed to Petition Help Desk at (571) 272-3282.

/ANDREA M SMITH/ Lead Paralegal Specialist, Office of Petitions	

PTO/SB/08a (01-22)
Approved for use through 05/31/2024. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
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.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Not for submission under 37 CFR 1.99)

Application Number	18896197
Filing Date	2024-09-25
First Named Inventor	Sacha Spindler
Art Unit	
Examiner Name	
Attorney Docket Number	0053-700.500

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	6101486	A	2000-08-08	Roberts et al.	Entire Document
	2	7197324	B2	2007-03-27	Sweeney	Entire Document
	3	8131258	B2	2012-03-06	Smith et al.	Entire Document
	4	8195509	B1	2012-06-05	Mhatre et al.	Entire Document
	5	8630670	B2	2014-01-14	Sweeney	Entire Document
	6	8655782	B2	2014-02-18	Poon et al.	Entire Document
	7	8700729	B2	2014-04-15	Dua	Entire Document
	8	9053189	B2	2015-06-09	Hoag et al.	Entire Document

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	18896197
	Filing Date	2024-09-25
	First Named Inventor	Sacha Spindler
	Art Unit	
	Examiner Name	
	Attorney Docket Number	0053-700.500

	9	9143831	B1	2015-09-22	Hendren et al.	Entire Document
	10	10122824	B1	2018-11-06	Chokhawala et al.	Entire Document
	11	10699264	B1	2020-06-30	Barman	Entire Document
	12	11158009	B2	2021-10-26	Barman	Entire Document
	13	11250098	B2	2022-02-15	Chokhawala et al.	Entire Document
	14	11301219	B2	2022-04-12	DeTella et al.	Entire Document
	15	11443325	B2	2022-09-13	Kallugudde et al.	Entire Document

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

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	20030191945	A1	2003-10-09	Keech	Entire Document
	2	20040230536	A1	2004-11-18	Fung, Daniel Y. et al.	Entire Document

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	18896197
	Filing Date	2024-09-25
	First Named Inventor	Sacha Spindler
	Art Unit	
	Examiner Name	
	Attorney Docket Number	0053-700.500

	3	20070174448	A1	2007-07-26	Ahuja et al.	Entire Document
	4	20070255620	A1	2007-11-01	Tumminaro et al.	Entire Document
	5	20070288323	A1	2007-12-13	Halevy	Entire Document
	6	20100113072	A1	2010-05-06	Gibson et al.	Entire Document
	7	20110218880	A1	2011-09-08	Hammad et al.	Entire Document
	8	20120185382	A1	2012-07-19	Fischer	Entire Document
	9	20120203605	A1	2012-08-09	Morgan et al.	Entire Document
	10	20130080319	A1	2013-03-28	Greenstone	Entire Document
	11	20140187197	A1	2014-07-03	SEGE	Entire Document
	12	20170256007	A1	2017-09-07	Barman	Entire Document
	13	20170295414	B2	2020-02-11	Murray et al.	Entire Document

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number	18896197
	Filing Date	2024-09-25
	First Named Inventor	Sacha Spindler
	Art Unit	
	Examiner Name	
	Attorney Docket Number	0053-700.500

	14	20180005263	A1	2018-01-04	McNulty et al.	Entire Document
	15	20180103004	A1	2018-04-12	Demir et al.	Entire Document
	16	20190141039	B2	2021-07-13	Stoops et al.	Entire Document
	17	20230077942	A1	2023-03-16	CRUTCHINGTON et al.	Entire Document

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

FOREIGN PATENT DOCUMENTS Remove

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							☐

If you wish to add additional Foreign Patent Document citation information please click the Add button Add

NON-PATENT LITERATURE DOCUMENTS Remove

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	International Search Report dated 12/13/2019 re PCT/US19/52847 (2 pages)	☐
	2	Written Opinion dated 12/13/2019 re PCT/US19/52847 (5 pages)	☐

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

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	18896197
	Filing Date	2024-09-25
	First Named Inventor	Sacha Spindler
	Art Unit	
	Examiner Name	
	Attorney Docket Number	0053-700.500

EXAMINER SIGNATURE			
Examiner Signature		Date Considered	

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

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

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	18896197
	Filing Date	2024-09-25
	First Named Inventor	Sacha Spindler
	Art Unit	
	Examiner Name	
	Attorney Docket Number	0053-700.500

CERTIFICATION STATEMENT

Please see 37 CFR 1.97(e) 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.

☒ A certification statement is not submitted herewith.

FEE

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

COPIES

☐ An identification of an earlier application pursuant to 37 CFR 1.98 (d) (1) is attached.

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	/Kristen J. Hansen/	Date (YYYY-MM-DD)	2024-10-09
Name/Print	Kristen J. Hansen	Registration Number	63,526

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 record s.

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.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Appl. No.	:	18/896,197	Confirmation No.	:	2568
Inventors	:	Spindler et al.	Attorney Docket No.	:	0053-700.500
Filing Date	:	09/25/2024			
Art Unit	:	TBA			
Examiner	:	TBA			
Title	:	AUTOMATED SILENT NETWORK AUTHENTICATION PROTOCOL SECURITY, VERIFICATION, AND ACCESS CONTROL FOR CELLULAR HANDHELD DEVICES			

INFORMATION DISCLOSURE STATEMENT

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

Commissioner:

Attached for filing in the above-referenced application is a PTO/SB/08 form. Pursuant to 37 CFR § 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 37 CFR § 1.56(b). For each document listed in the enclosed form, Applicant does not waive the right to take appropriate action, if needed in the future, to remove the document as a competent reference.

In accordance with 37 CFR § 1.97(b), this information disclosure statement is being filed before the mailing of a first office action on the merits. Accordingly, no fee is believed to be due and consideration of each reference is respectfully requested.

Respectfully submitted,

Date: 10/09/2024

By: /Kristen J. Hansen/
Kristen J. Hansen
Registration No. 63,526

AURORA CONSULTING LLC
810 Cottageview Drive, Ste. G10
Traverse City, MI 49684
Telephone: 952-215-4131

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 0053-700.600		FOR FURTHER ACTION see Form PCT/ISA/220 as well as, where applicable, item 5 below.
International application No. PCT/US19/52847	International filing date *(day/month/year)* 25 September 2019 (25.09.2019)	(Earliest) Priority Date *(day/month/year)* 27 September 2018 (27.09.2018)
Applicant IQX CORP.		

This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This international search report consists of a total of 2 sheets.

☐ It is also accompanied by a copy of each prior art document cited in this report.

1. **Basis of the report**
   a. With regard to the **language**, the international search was carried out on the basis of:
      ☒ the international application in the language in which it was filed.
      ☐ a translation of the international application into _____ which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b)).
   b. ☐ This international search report has been established taking into account the **rectification of an obvious mistake** authorized by or notified to this Authority under Rule 91 (Rule 43.6*bis*(a)).
   c. ☐ With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, see Box No. I.

2. ☐ **Certain claims were found unsearchable** (see Box No. II).

3. ☐ **Unity of invention is lacking** (see Box No. III).

4. With regard to the **title**,
   ☒ the text is approved as submitted by the applicant.
   ☐ the text has been established by this Authority to read as follows:

5. With regard to the **abstract**,
   ☒ the text is approved as submitted by the applicant.
   ☐ the text has been established, according to Rule 38.2, by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. With regard to the **drawings**,
   a. the figure of the **drawings** to be published with the abstract is Figure No. 4
      ☒ as suggested by the applicant.
      ☐ as selected by this Authority, because the applicant failed to suggest a figure.
      ☐ as selected by this Authority, because this figure better characterizes the invention.
   b. ☐ none of the figures is to be published with the abstract.

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US19/52847

A. CLASSIFICATION OF SUBJECT MATTER

IPC - G06Q 20/40, 20/38; H04W 12/06 (2019.01)

CPC - G06Q 20/4016, 20/382, 20/3255; H04W 12/06

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
See Search History document

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
See Search History document

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
See Search History document

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2007/0174448 A1 (AHUJA, A et al.) 26 July 2007; abstract; para [0010], [0026], [0040], [0042], [0050], [0058], [0068]	1-20
A	US 2012/0185382 A1 (FISCHER, M) 19 July 2012; entire document	1-20
A	US 2007/0255620 A1 (TUMMINARO, J et al.) 1 November 2007; entire document	1-20

☐ Further documents are listed in the continuation of Box C. ☐ See patent family annex.

* Special categories of cited documents:
"A" document defining the general state of the art which is not considered to be of particular relevance
"D" document cited by the applicant in the international application
"E" earlier application or patent but published on or after the international filing date
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
"O" document referring to an oral disclosure, use, exhibition or other means
"P" document published prior to the international filing date but later than the priority date claimed
"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"&" document member of the same patent family

Date of the actual completion of the international search	Date of mailing of the international search report
26 November 2019 (26.11.2019)	13 DEC 2019
Name and mailing address of the ISA/US Mail Stop PCT, Attn: ISA/US, Commissioner for Patents P.O. Box 1450, Alexandria, Virginia 22313-1450 Facsimile No. 571-273-8300	Authorized officer Shane Thomas Telephone No. PCT Helpdesk: 571-272-4300

PATENT COOPERATION TREATY

From the
INTERNATIONAL SEARCHING AUTHORITY

To: Ashley Sloat
Aurora Consulting LLC
P.O. Box 5542
Traverse City, MI 49696
United States of America

PCT

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

(PCT Rule 43*bis*.1)

Date of mailing *(day/month/year)* 13 DEC 2019

Applicant's or agent's file reference
0053-700.600

FOR FURTHER ACTION
See paragraph 2 below

International application No.	International filing date *(day/month/year)*	Priority date *(day/month/year)*
PCT/US19/52847	25 September 2019 (25.09.2019)	27 September 2018 (27.09.2018)

International Patent Classification (IPC) or both national classification and IPC
IPC - G06Q 20/40, 20/38; H04W 12/06 (2019.01)
CPC - G06Q 20/4016, 20/382, 20/3255; H04W 12/06

Applicant
IQX CORP.

1. This opinion contains indications relating to the following items:

- [x] Box No. I Basis of the opinion
- [ ] Box No. II Priority
- [ ] Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- [ ] Box No. IV Lack of unity of invention
- [x] Box No. V Reasoned statement under Rule 43*bis*.1(a)(i) with regard to novelty, inventive step and industrial applicability; citations and explanations supporting such statement
- [ ] Box No. VI Certain documents cited
- [ ] Box No. VII Certain defects in the international application
- [ ] Box No. VIII Certain observations on the international application

2. **FURTHER ACTION**

If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1*bis*(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.

For further options, see Form PCT/ISA/220.

Name and mailing address of the ISA/US	Date of completion of this opinion	Authorized officer
Mail Stop PCT, Attn: ISA/US Commissioner for Patents P.O. Box 1450, Alexandria, Virginia 22313-1450 Facsimile No. 571-273-8300	26 November 2019 (26.11.2019)	Shane Thomas PCT Help Desk Telephone No. 571-272-4300

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/US19/52847

Box No. I Basis of this opinion

1. With regard to the **language**, this opinion has been established on the basis of:

   ☒ the international application in the language in which it was filed.

   ☐ a translation of the international application into _____ which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b)).

2. ☐ This opinion has been established taking into account the **rectification of an obvious mistake** authorized by or notified to this Authority under Rule 91 (Rule 43*bis*.1(b)).

3. ☐ With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, this opinion has been established on the basis of a sequence listing:

   a. ☐ forming part of the international application as filed:

      ☐ in the form of an Annex C/ST.25 text file.

      ☐ on paper or in the form of an image file.

   b. ☐ furnished together with the international application under PCT Rule 13*ter*.1(a) for the purposes of international search only in the form of an Annex C/ST.25 text file.

   c. ☐ furnished subsequent to the international filing date for the purposes of international search only:

      ☐ in the form of an Annex C/ST.25 text file (Rule 13*ter*.1(a)).

      ☐ on paper or in the form of an image file (Rule 13*ter*.1(b) and Administrative Instructions, Section 713).

4. ☐ In addition, in the case that more than one version or copy of a sequence listing has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that forming part of the application as filed or does not go beyond the application as filed, as appropriate, were furnished.

5. Additional comments:

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/US19/52847

Box No. V **Reasoned statement under Rule 43*bis*.1(a)(i) with regard to novelty, inventive step and industrial applicability; citations and explanations supporting such statement**

1. Statement

Novelty (N)	Claims	NONE	YES
	Claims	1-20	NO
Inventive step (IS)	Claims	NONE	YES
	Claims	1-20	NO
Industrial applicability (IA)	Claims	1-20	YES
	Claims	NONE	NO

2. Citations and explanations:

Claims 1-20 lack novelty under PCT Article 33(2) as being anticipated by US 2007/0174448 A1 to AHUJA et al. (hereinafter "Ahuja").

As per claims 1, 12 and 20, Ahuja discloses a computer, a non-transitory computer-readable storage medium for use in conjunction with a computer to provide operations (a computer implemented method, inherently requiring a computer-readable storage medium for use in conjunction with a computer; claim 1), and a method for dynamically generating a customized second document (providing a host handoff file; para [0032]), the computer, the operations and the method comprising: an interface circuit configured to communicate with an electronic device (the separate web-based report server (interface circuit) is used to backup, archive, restore and report on usage of databases within the notification system having a server (computer), and the alert message database receives, from reports server, suspicious information that is formulated into a fraud alert and sent to the member customer "MC" mobile phone (electronic device); para [0010], [0036], [0038], [0059]); a processor coupled to the network interface and memory (the notification server coupled to the report network server (network interface), and having a processor of a specified type, and database storage; para [0038], [0068], [0087], [0090]); and the memory configured to store program instructions, wherein, when executed by the processor, the program instructions cause the computer to perform operations (the notification system/server utilizes multiple databases which are fed information via the multiple parties and/or via other servers and/or back office host systems, such as readable files which are updated by running an appropriate executable program; para [0010], [0026]) comprising: receive information specifying activation of a hosted field in a document associated with a third party, wherein the information specifies a willingness to receive one or more messages from the computer and specifies a telephone number (the customer preference database contains multiple data tables for storing and correctly logging in required data into the requisite data-fields, according to provided customer preferences, where databases are fed information via the multiple parties and/or via other servers (third party) and back office host systems, where a customer provides the system with his/her messaging identification "ID", e.g., mobile phone numbers that are able to accept (specifies a willingness to receive messages from the computer), e.g., short message service "SMS" notification messages; para [0010], [0026], [0058], [0068]); in response to receiving the information specifying the activation of the hosted field, dynamically generate a customized second document that includes information about one or more transactions of interest to an individual associated with the telephone number (a Web page prompts a first-time MC having a mobile phone number for various information, including customer's name, account number, and PIN (receiving the information specifying the activation of the hosted field), and subsequently, as a repeat-user MC (individual), a successful login by the MC links the MC to an MC preference site having MC data such as high-value transaction content (information about one or more transactions of interest) to be notified on, and a preferred channel of contact, where a "host handoff file" (customized second document) represents a data dump (generate) from the host database of all (information about one or more transactions of interest) information relevant to subscribers on the notification system; para [0010], [0027], [0040], [0042], [0050], [0062]); send a message to an address corresponding to the telephone number, wherein the message comprises a link to the customized second document (information is saved by the notification system within the host-handoff files (customized second document) from which data accessed by multiple servers is provided as compiled data (link) within specific request and notification files, where alerts and notifications are sent (send a message to an address corresponding to the telephone number) as SMS messages/channels (address) to the MC via a mobile phone number; para [0010], [0050], [0051]); and when the computer receives information, associated with the electronic device associated with the telephone number, which specifies activation of the link, provide information, intended for the electronic device, specifying the customized second document (information is saved by the notification system within the host-handoff files (customized second document) from which data accessed by multiple servers is provided as compiled (specifying the customized second document) data within specific request and notification files, where alerts and notifications are sent as SMS messages/channels (address) to the MC via a mobile phone number; para [0010], [0050], [0051]).

As per claims 2 and 13, Ahuja discloses the computer of claim 1 and the non-transitory computer-readable storage medium of claim 12, respectively. Additionally, Ahuja discloses, wherein the document comprises a webpage associated with a third party (the website having pages associated with other servers; para [0026], [0028], [0029]).

As per claims 3 and 14, Ahuja discloses the computer of claim 1 and the non-transitory computer-readable storage medium of claim 12, respectively. Additionally, Ahuja discloses, wherein the message comprises a Short Message Service "SMS" message (customers can choose between different notification channels such as SMS message; para [0010]).

As per claims 4 and 15, Ahuja discloses the computer of claim 1 and the non-transitory computer-readable storage medium of claim 12, respectively. Additionally, Ahuja discloses, wherein the customized second document comprises a webpage (a particularly effective method of displaying and generating data and information corresponding to handoff files is through the use of Web sites and/or Web pages; para [0028], [0051]).

-***-Continued Within the Next Supplemental Box-***-

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/US19/52847

Supplemental Box

In case the space in any of the preceding boxes is not sufficient.
Continuation of:

-***-Continued from Box V: Citations and Explanations-***-

As per claim 5, Ahuja discloses the computer of claim 1. Additionally, Ahuja discloses, wherein the customized second document facilitates completion of a given transaction in the one or more transactions (the preference web-site, which corresponds with information within the host handoff files (customized second document), allows notifications/alerts to be provided based on customer preferences, the notifications/alerts being used to provide verification (facilitates) in order to complete a high-risk transaction; abstract; para [0027], [0036], [0067]).

As per claim 6, Ahuja discloses the computer of claim 5. Additionally, Ahuja discloses, wherein the operations comprise providing authentication information intended for the electronic device to authenticate the given transaction (the customer must enter the transaction code (authentication information intended for the electronic device) within a predetermined amount of time in order to verify (authenticate) the high-risk transaction request; abstract; para [0010], [0067]); and wherein the given transaction is rejected by the computer when the computer does not receive confirmation that the authentication information is stored on the electronic device (the customer using a mobile device must enter the transaction code within a predetermined amount of time in order to verify the high-risk transaction request and complete the high-risk transaction; abstract; para [0010], [0067]).

As per claim 7, Ahuja discloses the computer of claim 6. Additionally, Ahuja discloses, wherein the authentication information comprises an authentication cookie (an authentication cookie generated each time a customer retrieves their record to be updated; para [0069]).

As per claim 8, Ahuja discloses the computer of claim 6. Additionally, Ahuja discloses, wherein the authentication information is valid for a predefined time interval (the customer must enter the transaction code within a predetermined amount of time in order to verify the high-risk transaction request; abstract; para [0010], [0067]).

As per claims 9 and 17, Ahuja discloses the computer of claim 1 and the non-transitory computer-readable storage medium of claim 12, respectively. Additionally, Ahuja discloses, wherein the operations comprise: determining, after receiving the information specifying activation of the hosted field, whether the telephone number is included in a data structure prior to dynamically generating the customized webpage (a notification server which generates electronic messages to registered customers upon their request or upon a host business request, where a customer provides the system, during registration, with his/her messaging identification "ID", e.g., mobile phone numbers that are able to accept, e.g., short message service "SMS" messages ; para [0010]); when the telephone number is included in the data structure, proceeding and dynamically generating the customized second document (a notification server which generates electronic messages to registered customers upon their request or upon a host business request, where a customer provides the system, during registration, with his/her messaging identification "ID", e.g., mobile phone numbers that are able to accept, e.g., short message service "SMS" messages during registration; para [0010]); and otherwise, confirming that the individual wants to receive the one or more messages prior to dynamically generating the customized second document (in the event that a particular notification gateway is not specifically selected, providing a default notification gateway, for example, the customer's e-mail address which would be a required field that must be completed prior to enrollment into the notification system; para [0054]).

As per claims 10 and 18, Ahuja discloses the computer of claim 1 and the non-transitory computer-readable storage medium of claim 12, respectively. Additionally, Ahuja discloses, wherein the one or more transactions of interest to the individual are associated with an entity, and the individual has a subscription with the entity (member (subscriber) customers "MCs" may utilizes one of the hosts various systems and processes, e.g., on-line, IVR or transaction system, for completing certain transactions related to an MCs account with the host (entity), the transaction being associated with financial opportunities to which customers might wish to avail themselves; para [0027], [0054], [0066]).

As per claims 11 and 19, Ahuja discloses the computer of claim 1 and the non-transitory computer-readable storage medium of claim 12, respectively. Additionally, Ahuja discloses, wherein the operations comprise: receiving a request message associated with the electronic device, wherein the request message comprises predefined code addressed to a second address corresponding to a second telephone number associated with the computer (a customer provides the system mobile phone numbers that are able to accept, e.g., short message service "SMS" (predefined code) messages, facsimile number, and/or a telephone number (second address corresponding to a second telephone number), where the customer service representative "CSR" (associated with the computer) is able to receive a copy of the same alert messages via a phone number (second telephone number); para [0010], [0071]); dynamically generating a customized third document that comprises information about one or more additional transactions of interest to the individual associated with the telephone number (transaction information provided by these hosts is presented to the databases and the alert message generators included in the notification system in the form of an updated "host handoff file" that represents a data dump from the host database of all information relevant to subscribers on the notification system, where these host handoff files are updated (dynamically generating a customized third document that comprises information about one or more additional transactions of interest) and are presented periodically; abstract; para [0010], [0034], [0071]); and providing a second message addressed to the address corresponding to the telephone number, wherein the second message comprises a link to the customized third document (information is saved by the notification system within the updated host-handoff files (customized third document) from which data accessed by multiple servers is provided as compiled data (link) within specific request and notification files, where alerts and notifications (second message) are sent as SMS messages/channels (address) to the MC via a mobile phone number; para [0010], [0034], [0050], [0051]).

-***-Continued Within the Next Supplemental Box-***-

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/US19/52847

Supplemental Box

In case **the space in any of the preceding boxes is not sufficient.**
Continuation of:

-***-Continued from Previous Supplemental Box-***-

As per claim 16, Ahuja discloses the non-transitory computer-readable storage medium of claim 12. Additionally, Ahuja discloses, wherein the customized second document facilitates completion of a given transaction in the one or more transactions (the preference web-site, which corresponds with information within the host handoff files (customized second document), allows notifications/alerts to be provided based on customer preferences, the notifications/alerts being used to provide verification (facilitates) in order to complete a high-risk transaction; abstract; para [0027], [0036], [0067]); wherein the one or more operations comprise providing authentication information intended for the electronic device to authenticate the given transaction (the customer must enter the transaction code (authentication information intended for the electronic device) within a predetermined amount of time in order to verify (authenticate) the high-risk transaction request; abstract; para [0010], [0067]); and wherein the given transaction is rejected by the computer when the computer does not receive confirmation that the authentication information is stored on the electronic device (the customer using a mobile device must enter the transaction code within a predetermined amount of time in order to verify the high-risk transaction request and complete the high-risk transaction; abstract; para [0010], [0067]).

Claims 1-20 have industrial applicability as defined by PCT Article 33(4) because the subject matter can be made or used in industry.

UNITED STATES
PATENT AND TRADEMARK OFFICE

P.O. Box 1450
Alexandria, VA 22313 - 1450
www.uspto.gov

ELECTRONIC ACKNOWLEDGEMENT RECEIPT

APPLICATION #	RECEIPT DATE / TIME	ATTORNEY DOCKET #
18/896,197	**10/09/2024 06:46:47 PM Z ET**	**0053-700.500**

Title of Invention

AUTOMATED SILENT NETWORK AUTHENTICATION PROTOCOL SECURITY, VERIFICATION, AND ACCESS CONTROL FOR CELLULAR HANDHELD DEVICES

Application Information

APPLICATION TYPE	Utility - Nonprovisional Application under 35 USC 111(a)	PATENT #	-
CONFIRMATION #	2568	FILED BY	Alisa McCarthy
PATENT CENTER #	67506691	FILING DATE	09/25/2024
CUSTOMER #	105822	FIRST NAMED INVENTOR	Sacha Spindler
CORRESPONDENCE ADDRESS	-	AUTHORIZED BY	Kristen Hansen

Documents

TOTAL DOCUMENTS: 4

DOCUMENT	PAGES	DESCRIPTION	SIZE (KB)
IDS Cover Letter 0053-700.500.pdf	1	Transmittal Letter	83 KB
20241009 IDS SB08 0053-700.500.pdf	7	Information Disclosure Statement (IDS) Form (SB08)	1332 KB
20191213 ISR 0053-700.600.pdf	2	Other reference-Patent/Application/Search Documents	94 KB
20191213 Written Opinion 0053-700.600.pdf	5	Other reference-Patent/Application/Search Documents	311 KB

Digest

DOCUMENT	MESSAGE DIGEST(SHA-512)
IDS Cover Letter 0053-700.500.pdf	4EDA58FEECDD2F4175B9091488D0F04A2D927BE57E14A5406F4253A60A0894D4715A0542D0E2E7F20CF63BFFB6B2A2BA4C45728BBCFB154C7FF015087B19AC0E
20241009 IDS SB08 0053-700.500.pdf	422BCED914501D1A39E64008E6229ADCC816C936CB8EA82988CA1011AB65623F3CEA5FB4E9D644008D14BE618BEE52D06E3A0A060EDC6A5070B4B21B84F1FCBF
20191213 ISR 0053-700.600.pdf	98FFED3AF00A64E2867212619F1E313405F9FB88CF4493E1E7FE22FDC327C59E0984F7C93FE1D7A3941D6F714333B49E18377CF14132A1634C5E5D3BC3256889
20191213 Written Opinion 0053-700.600.pdf	74BFA67C978DDA2634839C22F11E55BA1901250B59A1E2D637C0EBE16EFB990FEB223A647B36D87B21DB3CA0B2E989A7BCAA010DF8AE3C572675DB532737584C

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

New Applications Under 35 U.S.C. 111

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

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

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

New International Application Filed with the USPTO as a Receiving Office

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

UNITED STATES PATENT AND TRADEMARK OFFICE

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

APPLICATION NUMBER	FILING or 371(c) DATE	GRP ART UNIT	FIL FEE REC'D	ATTY.DOCKET.NO	TOT CLAIMS	IND CLAIMS
18/896,197	09/25/2024		664	0053-700.500	20	3

CONFIRMATION NO. 2568

FILING RECEIPT

OC000000078884614

105822
Aurora Consulting LLC
Ashley Sloat
810 Cottageview Dr.
Ste. G10
Traverse City, MI 49684

Date Mailed: 10/04/2024

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)

Sacha Spindler, Prague 8, CZECHIA;
Aidan Wright, Tigard, OR;

Applicant(s)

IQX CORP., Carson City, NV;

Power of Attorney: The patent practitioners associated with Customer Number 105822

Domestic Priority data as claimed by applicant

This application is a CIP of 18/483,670 10/10/2023 PAT 12,126,752
which is a CON of 18/193,163 03/30/2023 PAT 11,876,924
which is a CON of 17/279,188 03/24/2021 PAT 11,765,262
which is a 371 of PCT/US19/52847 09/25/2019
which claims benefit of 62/737,315 09/27/2018

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: 10/02/2024

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 18/896,197**

Projected Publication Date: 01/09/2025

Non-Publication Request: No

Early Publication Request: No
**** SMALL ENTITY ****
Title

AUTOMATED SILENT NETWORK AUTHENTICATION PROTOCOL SECURITY, VERIFICATION, AND ACCESS CONTROL FOR CELLULAR HANDHELD DEVICES

Preliminary Class

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

PROTECTING YOUR INVENTION OUTSIDE THE UNITED STATES

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

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

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

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

For information on preventing theft of your intellectual property (patents, trademarks and copyrights), you may wish to consult the U.S. Government website, http://www.stopfakes.gov. Part of a Department of Commerce initiative, this website includes self-help "toolkits" giving innovators guidance on how to protect intellectual property in specific

countries such as China, Korea and Mexico. For questions regarding patent enforcement issues, applicants may call the U.S. Government hotline at 1-866-999-HALT (1-866-999-4258).

LICENSE FOR FOREIGN FILING UNDER

Title 35, United States Code, Section 184

Title 37, Code of Federal Regulations, 5.11 & 5.15

GRANTED

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

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

The grant of a license does not in any way lessen the responsibility of a licensee for the security of the subject matter as imposed by any Government contract or the provisions of existing laws relating to espionage and the national security or the export of technical data. Licensees should apprise themselves of current regulations especially with respect to certain countries, of other agencies, particularly the Office of Defense Trade Controls, Department of State (with respect to Arms, Munitions and Implements of War (22 CFR 121-128)); the Bureau of Industry and Security, Department of Commerce (15 CFR parts 730-774); the Office of Foreign AssetsControl, 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
18/896,197

APPLICATION AS FILED - PART I

FOR	(Column 1) NUMBER FILED	(Column 2) NUMBER EXTRA	SMALL ENTITY RATE($)	SMALL ENTITY FEE($)	OR	OTHER THAN SMALL ENTITY RATE($)	OTHER THAN SMALL ENTITY FEE($)
BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A	N/A	64		N/A	
SEARCH FEE (37 CFR 1.16(k), (i), or (m))	N/A	N/A	N/A	280		N/A	
EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A	N/A	320		N/A	
TOTAL CLAIMS (37 CFR 1.16(i))	20 minus 20 =	* 0	x =	0	OR		
INDEPENDENT CLAIMS (37 CFR 1.16(h))	3 minus 3 =	*	x =	0			
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			
MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))				0			
* If the difference in column 1 is less than zero, enter "0" in column 2.			TOTAL	664		TOTAL	

APPLICATION AS AMENDED - PART II

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

		(Column 1) CLAIMS REMAINING AFTER AMENDMENT		(Column 2) HIGHEST NUMBER PREVIOUSLY PAID FOR	(Column 3) PRESENT EXTRA	RATE($)	ADDITIONAL FEE($)	OR	RATE($)	ADDITIONAL FEE($)
AMENDMENT B	Total (37 CFR 1.16(i))	*	Minus	**	=	x =		OR	x =	
AMENDMENT B	Independent (37 CFR 1.16(h))	*	Minus	***	=	x =		OR	x =	
AMENDMENT B	Application Size Fee (37 CFR 1.16(s))									
AMENDMENT B	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

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

WELCOME TO THE UNITED STATES PATENT AND TRADEMARK OFFICE (USPTO)

*Congratulations on taking the first step to protect your invention. You can now advertise or mark any products covered by this application for your invention as **"Patent Pending"** for as long as this application is pending!*

We are here to help you on the rest of your journey.

New to the process? The Patent Basics page will take you from "What is a patent?" to assistance with the application process.

- **www.uspto.gov/PatentBasics**

Consider cost savings. You might qualify for small entity or micro entity status, which means a discount on most USPTO patent fees.

- **www.uspto.gov/EntityStatus**

Become a registered electronic filer (eFiler). You'll gain access to the full capabilities of Patent Center. As a registered eFiler, you can electronically view your submission, track the progress of your application, and respond to USPTO correspondence.

- **www.uspto.gov/NewPatentFilers**

Learn how to identify which of your creative ideas might be intellectual property assets and how to protect them by using the USPTO Intellectual Property (IP) Identifier.

- **ipidentifier.uspto.gov**

We also provide Pro Se Assistance, support specifically geared for **independent inventors without an attorney or agent.** Follow the link below, call us at 866-767-3848, or email **proseassistancecenter@uspto.gov**.

- **www.uspto.gov/ProSePatents**

Need help near you? We have regional offices across the country, as well as Patent and Trademark Resource Centers in libraries in nearly every state, with specialists standing by to help you at no cost.

- **www.uspto.gov/locations**
- **www.uspto.gov/ptrc**

Contact us:

- **General information:** USPTO Contact Center
  - **www.uspto.gov/help**
- **Patent Center:**
  Patent Electronic Business Center
  - **www.uspto.gov/EBC**
- **Pre or post-examination:** Application Assistance Unit
  - **www.uspto.gov/PatentAssistance**

Want to learn more?

- **Access our free services** all in one spot. Find all of our contact centers, nationwide services, events, education, and training.
  - **www.uspto.gov/FreeServices**
- **Connect with us** on Instagram, LinkedIn, Twitter, Facebook, and YouTube.
- **Hear about resources for startups, inventors, and entrepreneurs,** as well as our initiatives engaging women, the military community, and others. These programs offer helpful tips and tricks on identifying and managing your IP, finding options for funding, and expanding your network to support your business.
  - **www.uspto.gov/startups**
  - **www.uspto.gov/inventors**
  - **www.uspto.gov/initiatives**
- We hope you connect with us by subscribing to receive important notifications by email.
  - **www.uspto.gov/subscribe**

Kathi Vidal

Kathi Vidal
Under Secretary of Commerce for Intellectual Property and
Director of the United States Patent and Trademark Office

Derrick Brent
Deputy Under Secretary of Commerce for Intellectual Property and
Deputy Director of the United States Patent and Trademark Office

UNITED STATES
PATENT AND TRADEMARK OFFICE

P.O. Box 1450
Alexandria, VA 22313 - 1450
www.uspto.gov

ELECTRONIC PAYMENT RECEIPT

APPLICATION #	RECEIPT DATE / TIME	ATTORNEY DOCKET #
18/896,197	**09/25/2024 03:58:58 PM Z ET**	**0053-700.500**

Title of Invention

AUTOMATED SILENT NETWORK AUTHENTICATION PROTOCOL SECURITY, VERIFICATION, AND ACCESS CONTROL FOR CELLULAR HANDHELD DEVICES

Application Information

APPLICATION TYPE	Utility - Nonprovisional Application under 35 USC 111(a)	PATENT #	-
CONFIRMATION #	2568	FILED BY	Joanna Moore
PATENT CENTER #	67318236	AUTHORIZED BY	Kristen Hansen
CUSTOMER #	105822	FILING DATE	-
CORRESPONDENCE ADDRESS	-	FIRST NAMED INVENTOR	Sacha Spindler

Payment Information

PAYMENT METHOD	PAYMENT TRANSACTION ID	PAYMENT AUTHORIZED BY
CARD / 6400	**E20249OG08589744**	**Joanna Moore**

FEE CODE	DESCRIPTION	ITEM PRICE($)	QUANTITY	ITEM TOTAL($)
2830	PROCESSING FEE, EXCEPT IN PROVISIONAL APPLICATIONS	56.00	1	56.00
2817	REQUEST FOR PRIORITIZED EXAMINATION	1680.00	1	1680.00
2111	UTILITY PATENT APPL. SEARCH FEE	280.00	1	280.00
4011	BASIC FILING FEE- UTILITY	64.00	1	64.00
2311	EXAMINATION OF ORIGINAL PATENT APPLICATION	320.00	1	320.00
			TOTAL AMOUNT:	**$2,400.00**

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

New Applications Under 35 U.S.C. 111

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

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

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

New International Application Filed with the USPTO as a Receiving Office

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

PTO/AIA/01 (06-12)
Approved for use through 05/31/2024. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
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	AUTOMATED SILENT NETWORK AUTHENTICATION PROTOCOL SECURITY, VERIFICATION, AND ACCESS CONTROL FOR CELLULAR HANDHELD DEVICES

As the below named inventor, I hereby declare that:

This declaration is directed to:

☒ The attached application, or

☐ United States application or PCT international application number _____

filed on _____.

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

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

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

WARNING:

Petitioner/applicant is cautioned to avoid submitting personal information in documents filed in a patent application that may contribute to identity theft. Personal information such as social security numbers, bank account numbers, or credit card numbers (other than a check or credit card authorization form PTO-2038 submitted for payment purposes) is never required by the USPTO to support a petition or an application. If this type of personal information is included in documents submitted to the USPTO, petitioners/applicants should consider redacting such personal information from the documents before submitting them to the USPTO. Petitioner/applicant is advised that the record of a patent application is available to the public after publication of the application (unless a non-publication request in compliance with 37 CFR 1.213(a) is made in the application) or issuance of a patent. Furthermore, the record from an abandoned application may also be available to the public if the application is referenced in a published application or an issued patent (see 37 CFR 1.14). Checks and credit card authorization forms PTO-2038 submitted for payment purposes are not retained in the application file and therefore are not publicly available.

LEGAL NAME OF INVENTOR

Inventor: Sacha Spindler Date (Optional): 09 / 23 / 2024

Signature: Sacha Spindler

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.

A Federal agency may not conduct or sponsor, and a person is not required to respond to, nor shall a person be subject to a penalty for failure to comply with an information collection subject to the requirements of the Paperwork Reduction Act of 1995, unless the information collection has a currently valid OMB Control Number. The OMB Control Number for this information collection is 0651-0032. Public burden for this form is estimated to average 1 minute per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the information collection. Send comments regarding this burden estimate or any other aspect of this information collection, including suggestions for reducing this burden to the Chief Administrative Officer, United States Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450 or email InformationCollection@uspto.gov. **DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS.** If filing this completed form by mail, 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 1.

Doc ID: e93b9a31a947d936025749e84c3803dca7a7de9f

PTO/AIA/01 (06-12)
Approved for use through 05/31/2024. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
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	AUTOMATED SILENT NETWORK AUTHENTICATION PROTOCOL SECURITY, VERIFICATION, AND ACCESS CONTROL FOR CELLULAR HANDHELD DEVICES

As the below named inventor, I hereby declare that:

This declaration is directed to:

☒ The attached application, or

☐ United States application or PCT international application number _____

filed on _____.

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

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

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

WARNING:

Petitioner/applicant is cautioned to avoid submitting personal information in documents filed in a patent application that may contribute to identity theft. Personal information such as social security numbers, bank account numbers, or credit card numbers (other than a check or credit card authorization form PTO-2038 submitted for payment purposes) is never required by the USPTO to support a petition or an application. If this type of personal information is included in documents submitted to the USPTO, petitioners/applicants should consider redacting such personal information from the documents before submitting them to the USPTO. Petitioner/applicant is advised that the record of a patent application is available to the public after publication of the application (unless a non-publication request in compliance with 37 CFR 1.213(a) is made in the application) or issuance of a patent. Furthermore, the record from an abandoned application may also be available to the public if the application is referenced in a published application or an issued patent (see 37 CFR 1.14). Checks and credit card authorization forms PTO-2038 submitted for payment purposes are not retained in the application file and therefore are not publicly available.

LEGAL NAME OF INVENTOR

Inventor: Aidan Wright Date (Optional): 09 / 23 / 2024

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.

A Federal agency may not conduct or sponsor, and a person is not required to respond to, nor shall a person be subject to a penalty for failure to comply with an information collection subject to the requirements of the Paperwork Reduction Act of 1995, unless the information collection has a currently valid OMB Control Number. The OMB Control Number for this information collection is 0651-0032. Public burden for this form is estimated to average 1 minute per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the information collection. Send comments regarding this burden estimate or any other aspect of this information collection, including suggestions for reducing this burden to the Chief Administrative Officer, United States Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450 or email InformationCollection@uspto.gov. **DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS.** If filing this completed form by mail, 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 1.

Doc ID: e93b9a31a947d936025749e84c3803dca7a7de9f

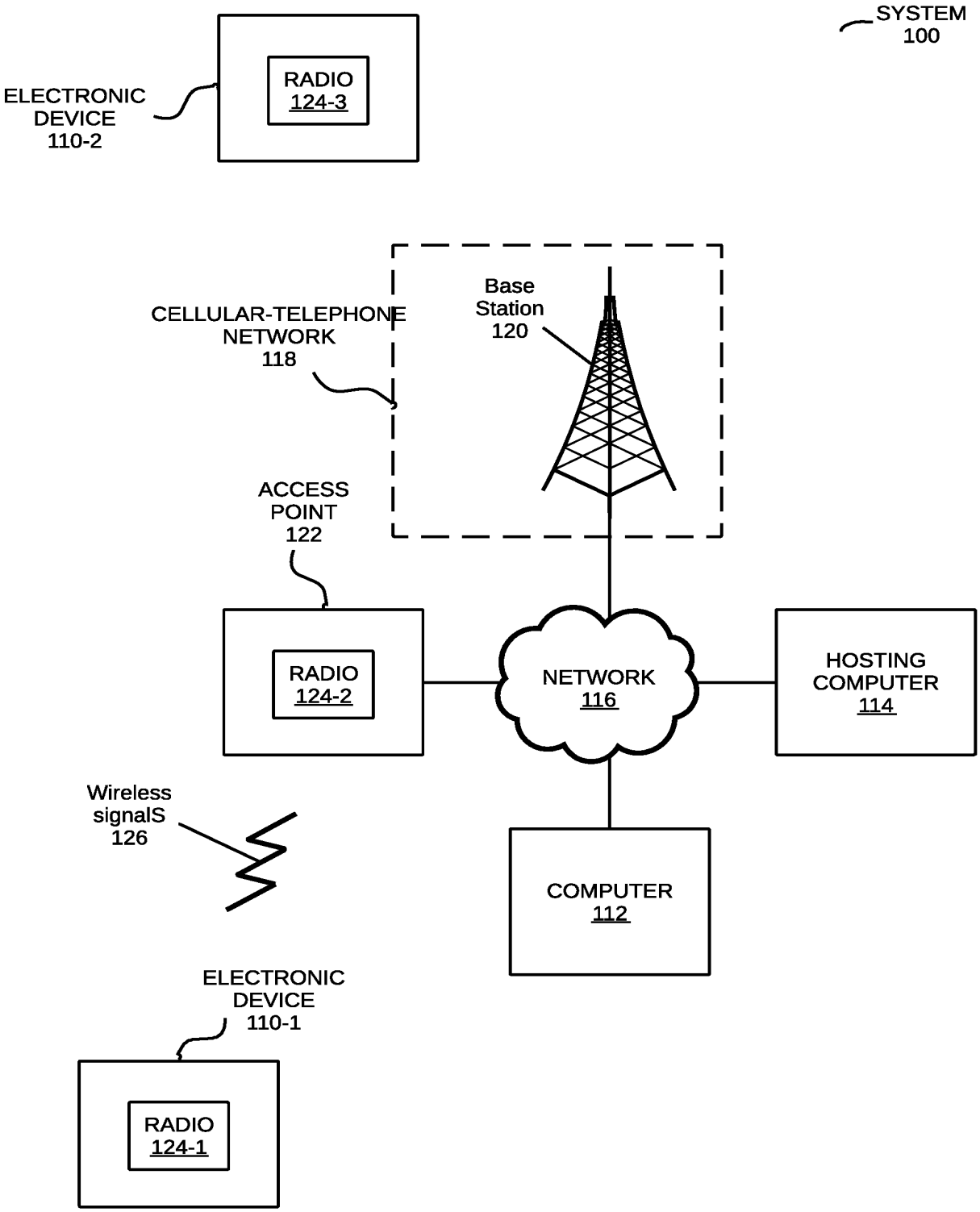
SYSTEM
100
ELECTRONIC
DEVICE
110-2
RADIO
124-3
CELLULAR-TELEPHONE
NETWORK
118
Base
Station
120
ACCESS
POINT
122
RADIO
124-2
NETWORK
116
HOSTING
COMPUTER
114
Wireless
signalS
126
COMPUTER
112
ELECTRONIC
DEVICE
110-1
RADIO
124-1

FIG. 1

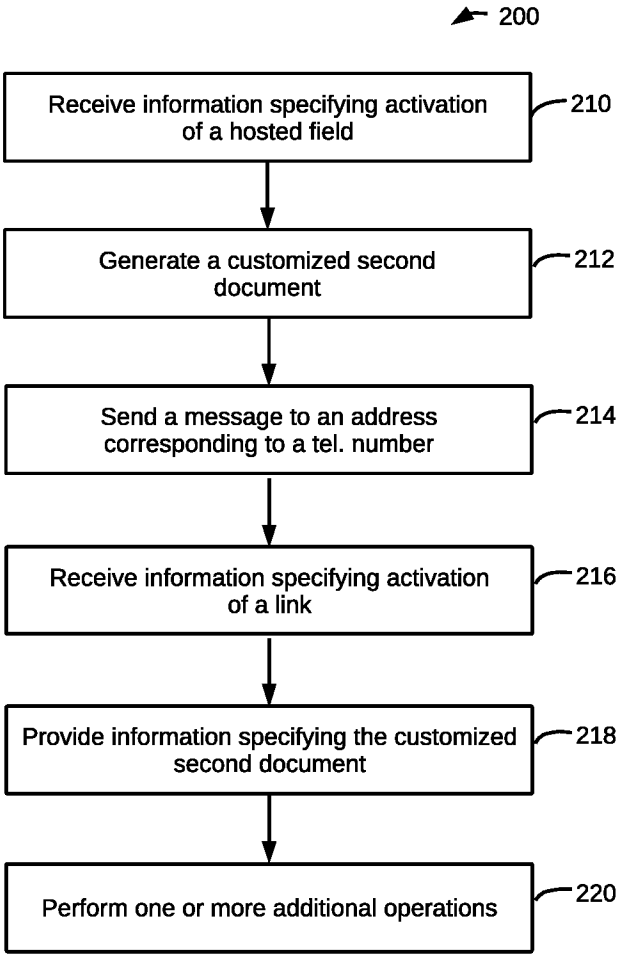
200
Receive information specifying activation of a hosted field
210
Generate a customized second document
212
Send a message to an address corresponding to a tel. number
214
Receive information specifying activation of a link
216
Provide information specifying the customized second document
218
Perform one or more additional operations
220

FIG. 2

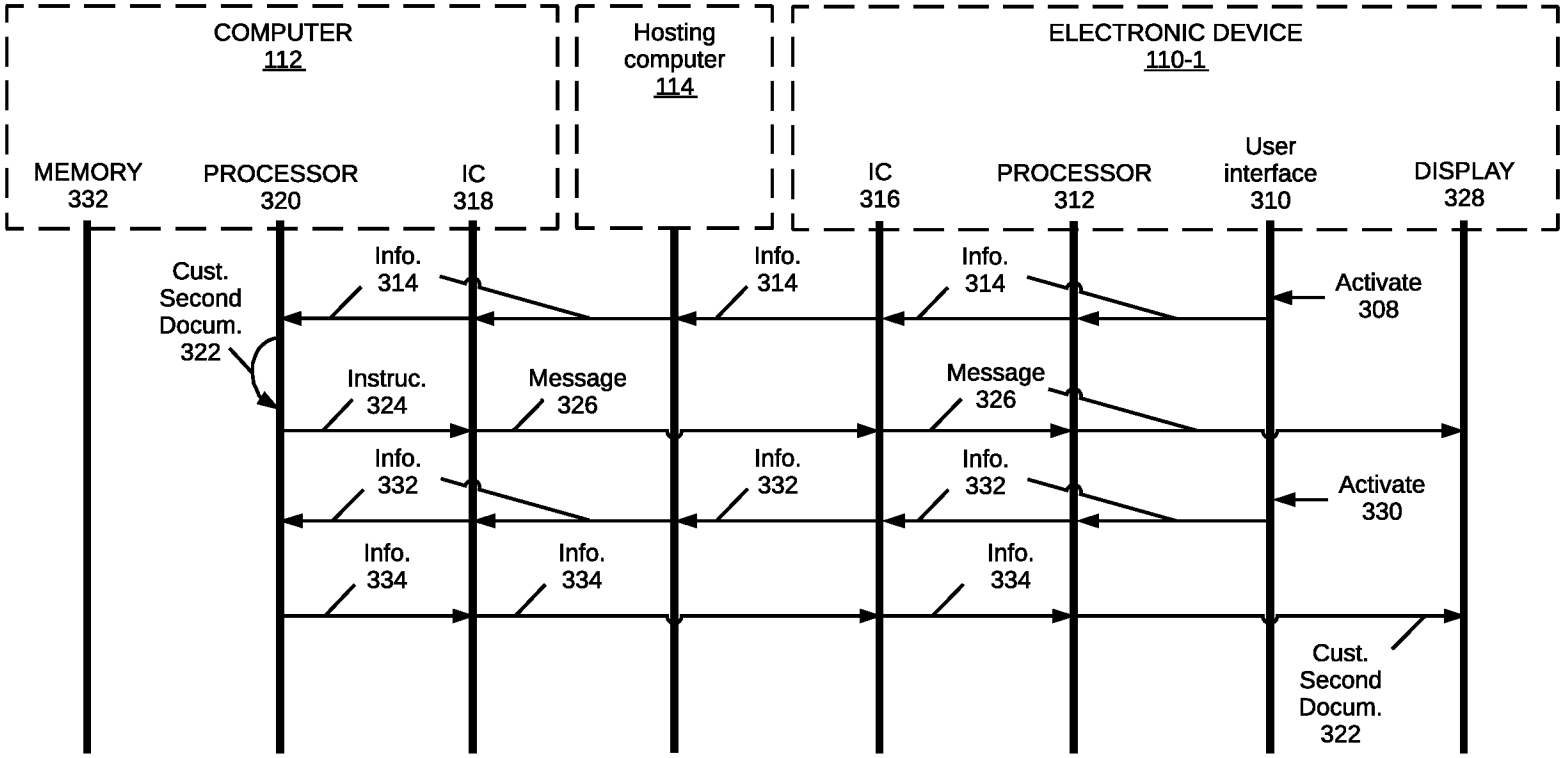
COMPUTER
112
Hosting
computer
114
ELECTRONIC DEVICE
110-1
MEMORY
332
PROCESSOR
320
IC
318
IC
316
PROCESSOR
312
User
interface
310
DISPLAY
328
Cust.
Second
Docum.
322
Info.
314
Info.
314
Info.
314
Activate
308
Instruc.
324
Message
326
Message
326
Info.
332
Info.
332
Info.
332
Activate
330
Info.
334
Info.
334
Info.
334
Cust.
Second
Docum.
322

FIG. 3

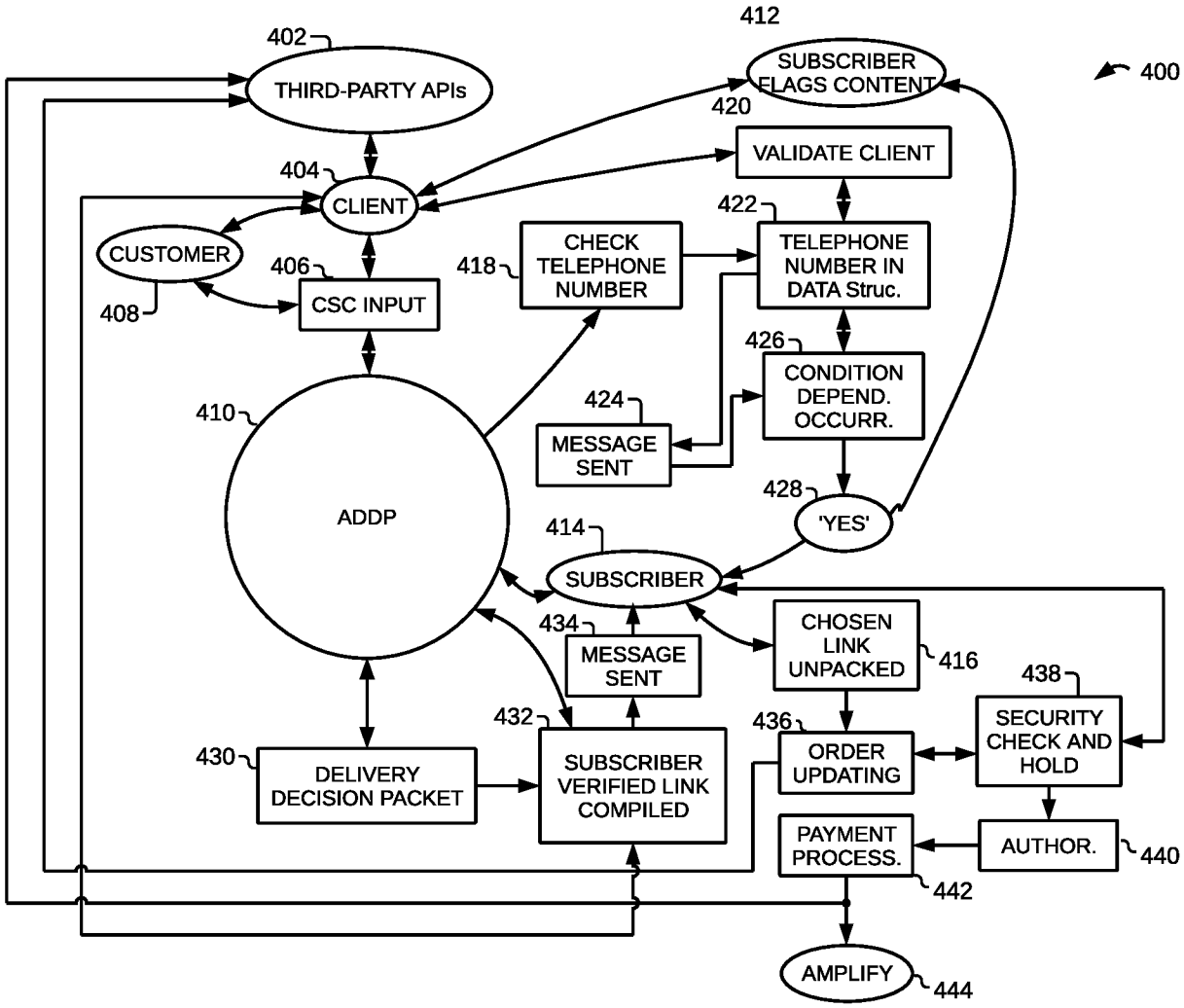
400
402
THIRD-PARTY APIs
412
SUBSCRIBER FLAGS CONTENT
420
VALIDATE CLIENT
404
CLIENT
422
CUSTOMER
406
CSC INPUT
408
418
CHECK TELEPHONE NUMBER
TELEPHONE NUMBER IN DATA Struc.
426
CONDITION DEPEND. OCCURR.
424
MESSAGE SENT
410
ADDP
428
'YES'
414
SUBSCRIBER
434
MESSAGE SENT
CHOSEN LINK UNPACKED
416
438
SECURITY CHECK AND HOLD
432
436
ORDER UPDATING
430
DELIVERY DECISION PACKET
SUBSCRIBER VERIFIED LINK COMPILED
PAYMENT PROCESS.
AUTHOR.
440
442
AMPLIFY
444

FIG. 4

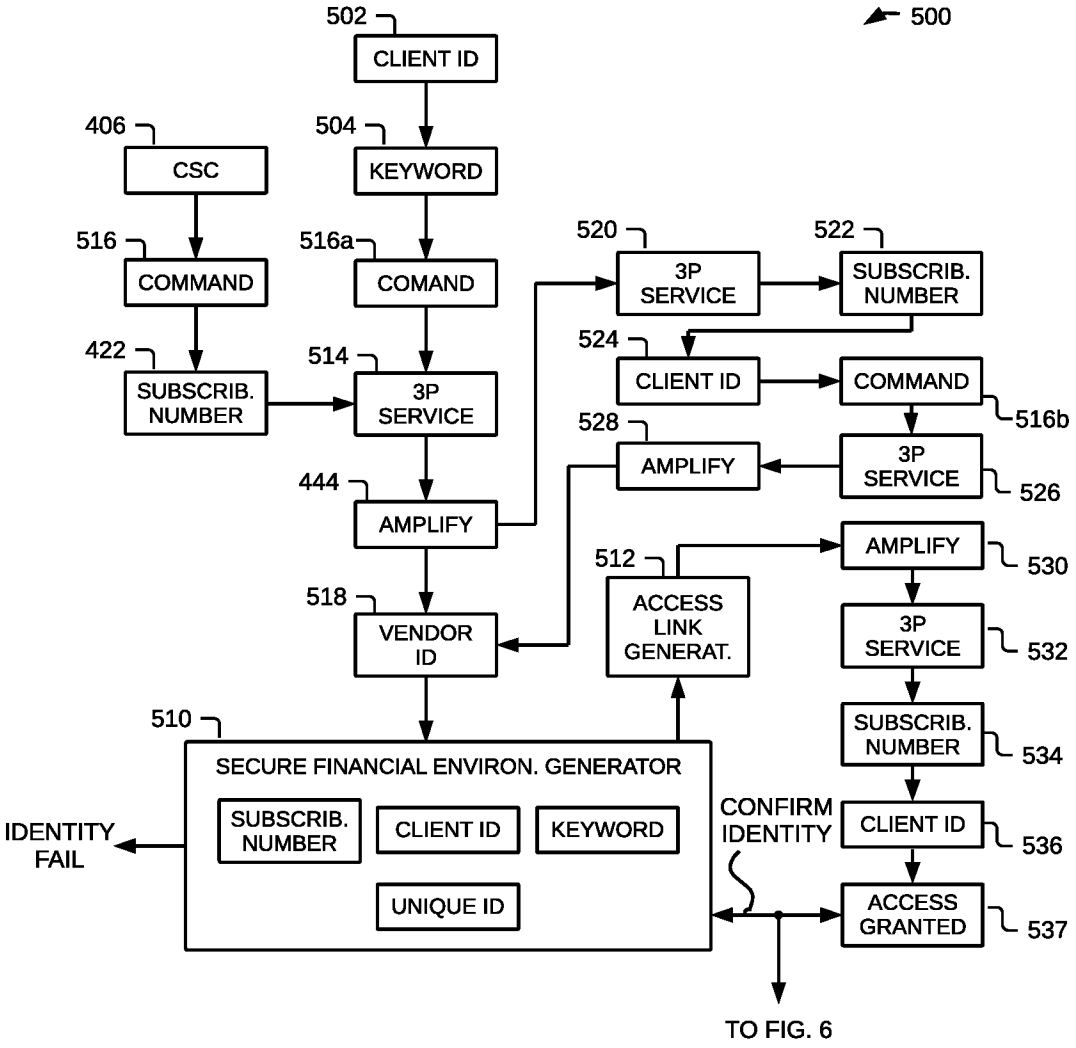
500
502
CLIENT ID
406
CSC
504
KEYWORD
516
COMMAND
516a
COMAND
520
3P SERVICE
522
SUBSCRIB. NUMBER
422
SUBSCRIB. NUMBER
514
3P SERVICE
524
CLIENT ID
COMMAND
516b
528
AMPLIFY
3P SERVICE
526
444
AMPLIFY
512
ACCESS LINK GENERAT.
AMPLIFY
530
518
VENDOR ID
3P SERVICE
532
510
SECURE FINANCIAL ENVIRON. GENERATOR
SUBSCRIB. NUMBER
CLIENT ID
KEYWORD
UNIQUE ID
SUBSCRIB. NUMBER
534
IDENTITY FAIL
CONFIRM IDENTITY
CLIENT ID
536
ACCESS GRANTED
537
TO FIG. 6

FIG. 5

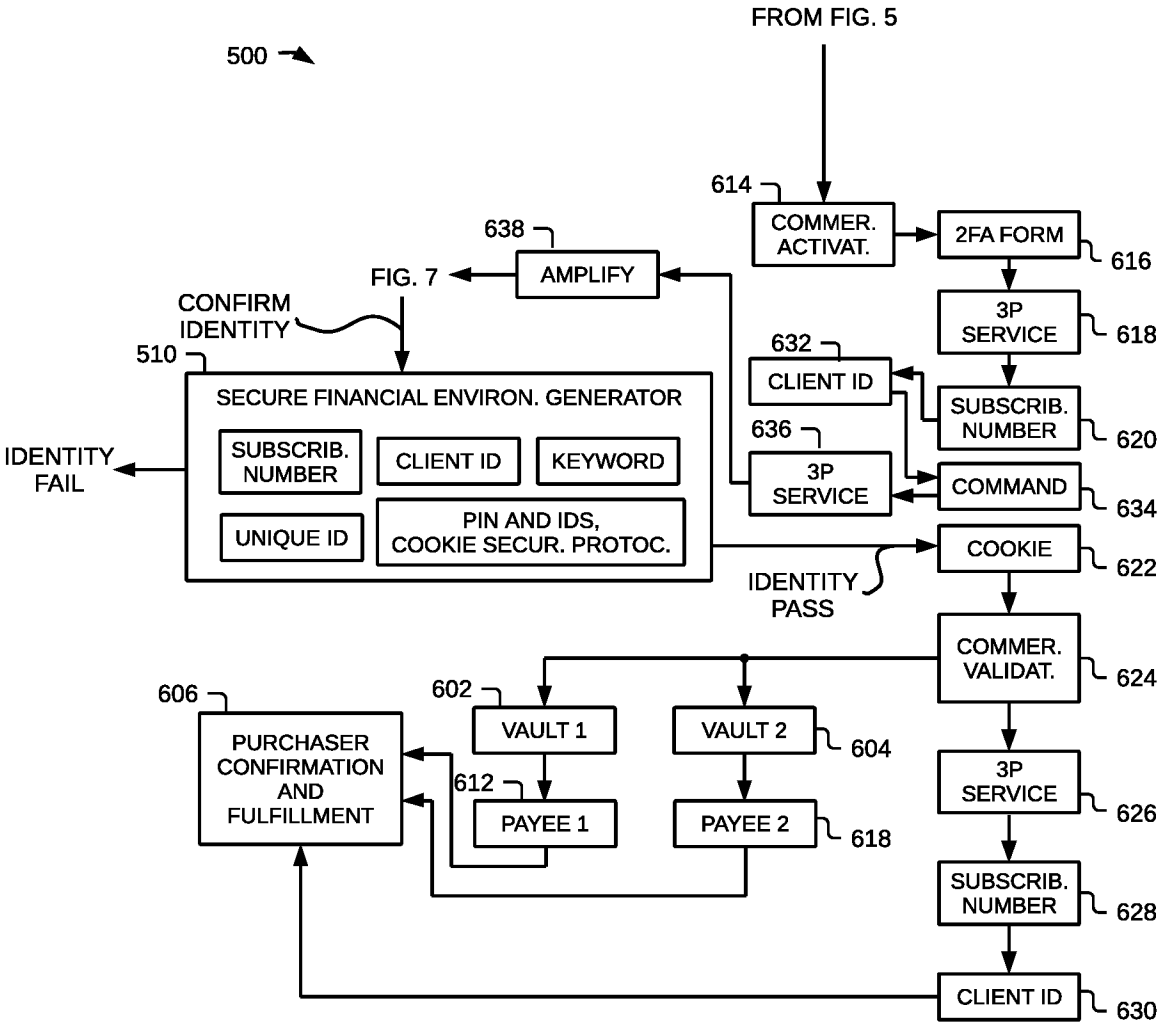
FROM FIG. 5
500
614
COMMER. ACTIVAT.
2FA FORM
616
638
AMPLIFY
FIG. 7
CONFIRM IDENTITY
3P SERVICE
618
510
632
CLIENT ID
SUBSCRIB. NUMBER
620
SECURE FINANCIAL ENVIRON. GENERATOR
SUBSCRIB. NUMBER
CLIENT ID
KEYWORD
636
3P SERVICE
COMMAND
634
IDENTITY FAIL
UNIQUE ID
PIN AND IDS, COOKIE SECUR. PROTOC.
COOKIE
622
IDENTITY PASS
COMMER. VALIDAT.
624
606
602
VAULT 1
VAULT 2
604
PURCHASER CONFIRMATION AND FULFILLMENT
612
PAYEE 1
PAYEE 2
618
3P SERVICE
626
SUBSCRIB. NUMBER
628
CLIENT ID
630

FIG. 6

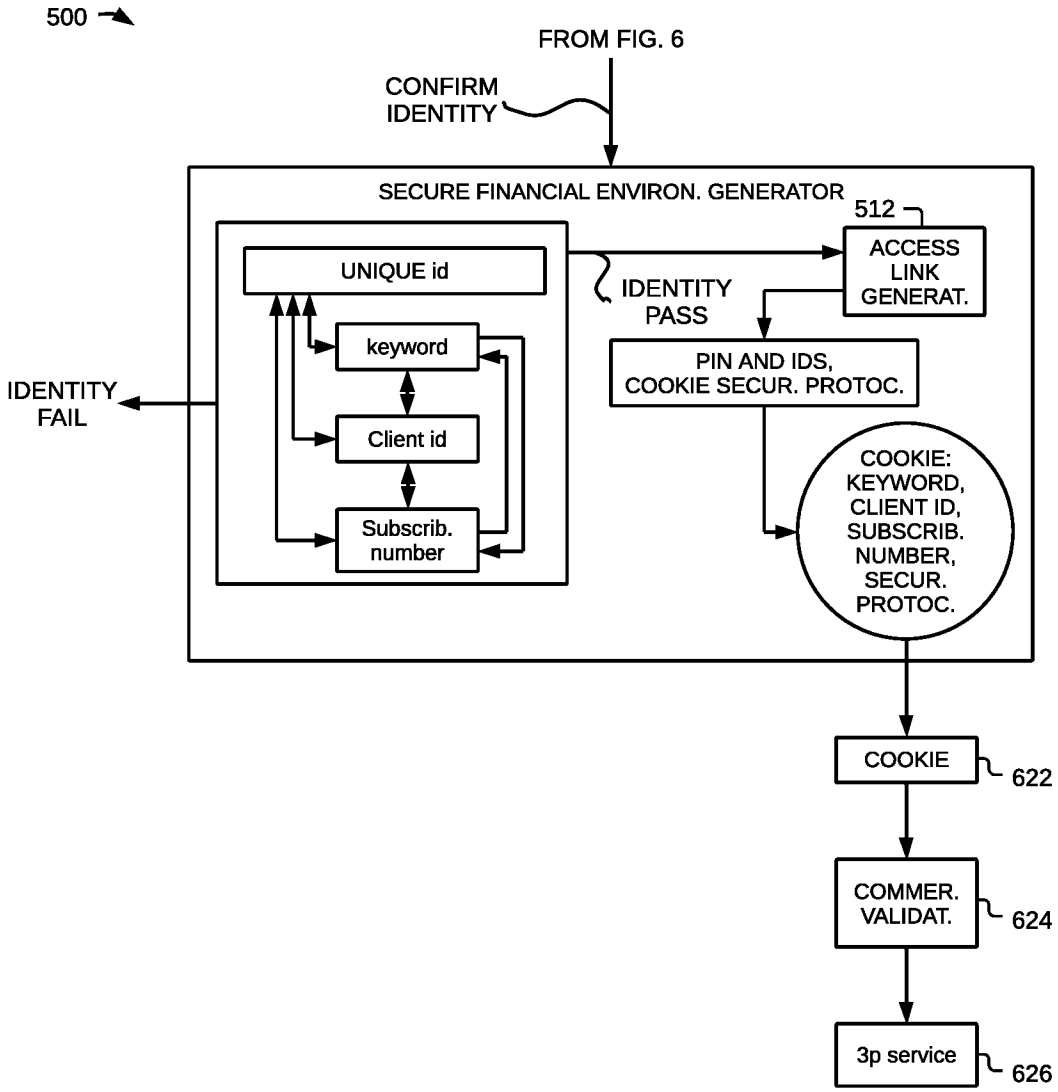
500
FROM FIG. 6
CONFIRM IDENTITY
SECURE FINANCIAL ENVIRON. GENERATOR
512
UNIQUE id
keyword
Client id
Subscrib. number
IDENTITY PASS
ACCESS LINK GENERAT.
PIN AND IDS, COOKIE SECUR. PROTOC.
IDENTITY FAIL
COOKIE: KEYWORD, CLIENT ID, SUBSCRIB. NUMBER, SECUR. PROTOC.
COOKIE
622
COMMER. VALIDAT.
624
3p service
626

FIG. 7

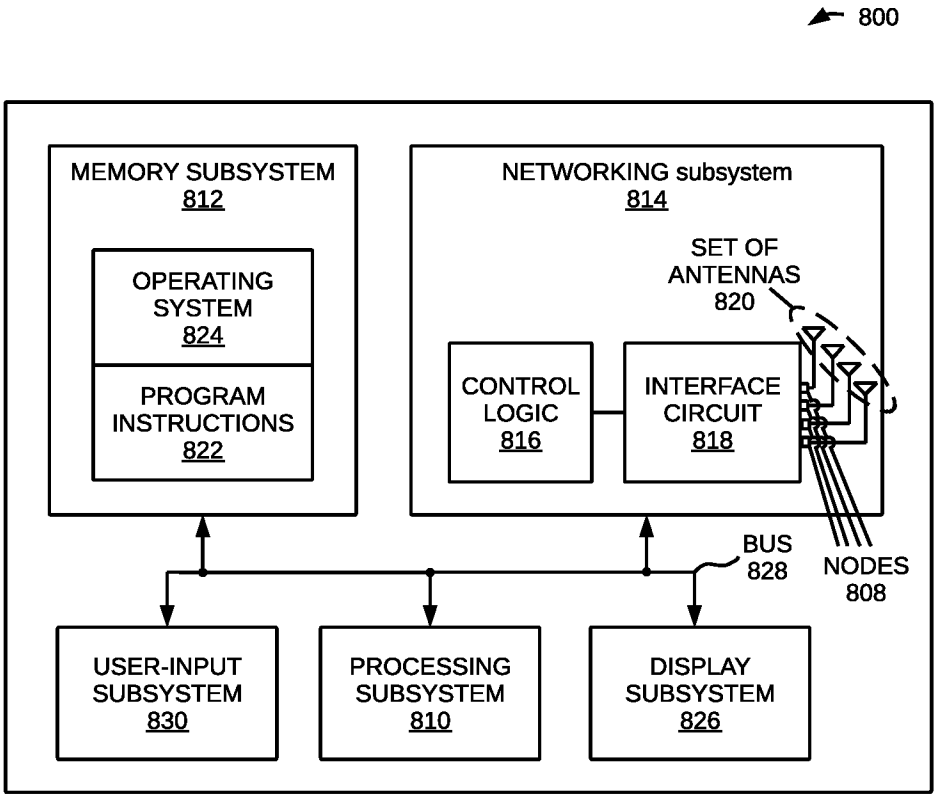
800
MEMORY SUBSYSTEM
812
OPERATING SYSTEM
824
PROGRAM INSTRUCTIONS
822
NETWORKING subsystem
814
SET OF ANTENNAS
820
CONTROL LOGIC
816
INTERFACE CIRCUIT
818
BUS
828
NODES
808
USER-INPUT SUBSYSTEM
830
PROCESSING SUBSYSTEM
810
DISPLAY SUBSYSTEM
826

FIG. 8

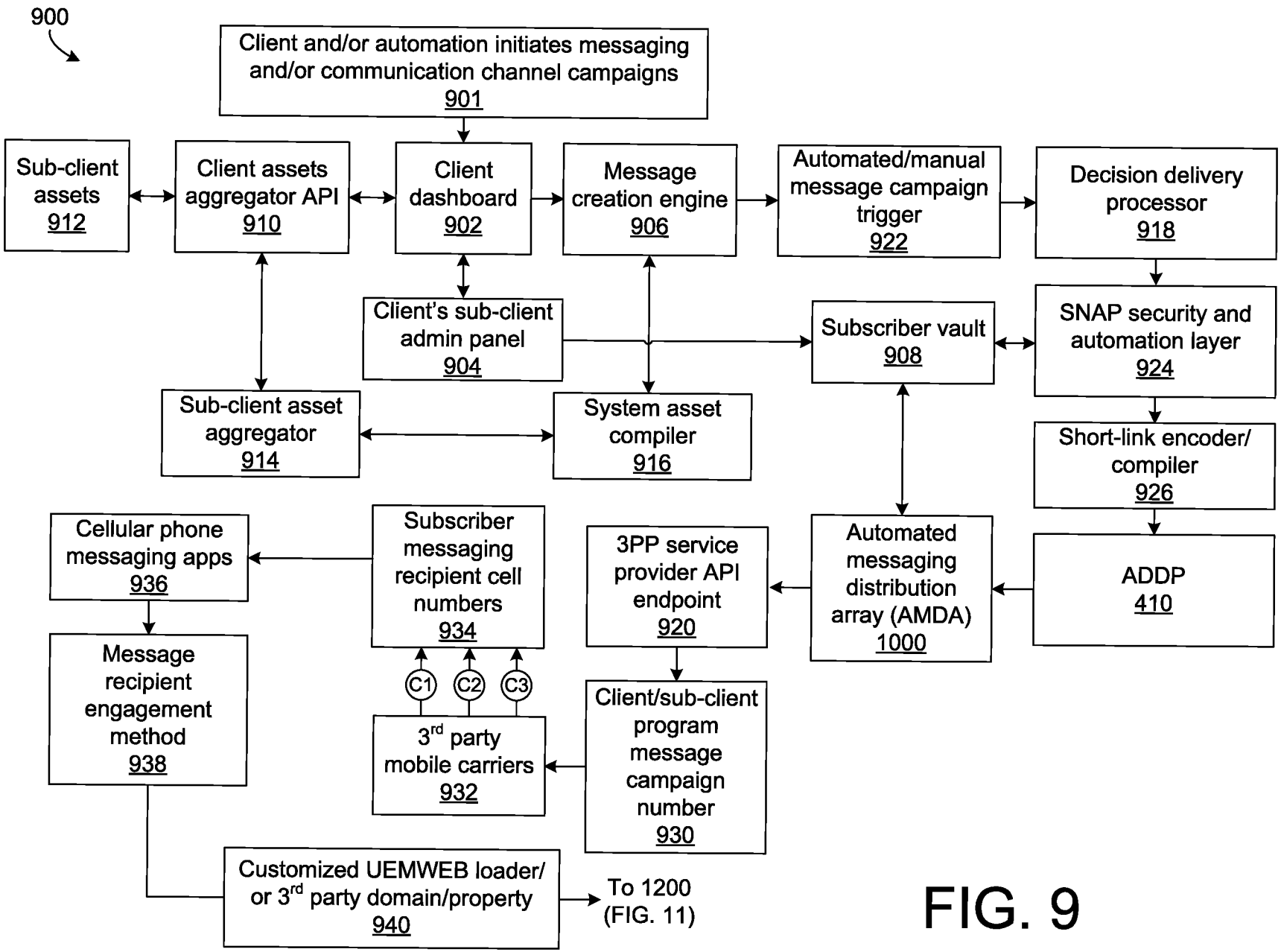
900
Client and/or automation initiates messaging and/or communication channel campaigns 901
Sub-client assets 912
Client assets aggregator API 910
Client dashboard 902
Message creation engine 906
Automated/manual message campaign trigger 922
Decision delivery processor 918
Client's sub-client admin panel 904
Subscriber vault 908
SNAP security and automation layer 924
Sub-client asset aggregator 914
System asset compiler 916
Short-link encoder/ compiler 926
Cellular phone messaging apps 936
Subscriber messaging recipient cell numbers 934
3PP service provider API endpoint 920
Automated messaging distribution array (AMDA) 1000
ADDP 410
Message recipient engagement method 938
C1
C2
C3
3rd party mobile carriers 932
Client/sub-client program message campaign number 930
Customized UEMWEB loader/ or 3rd party domain/property 940
To 1200 (FIG. 11)

FIG. 9

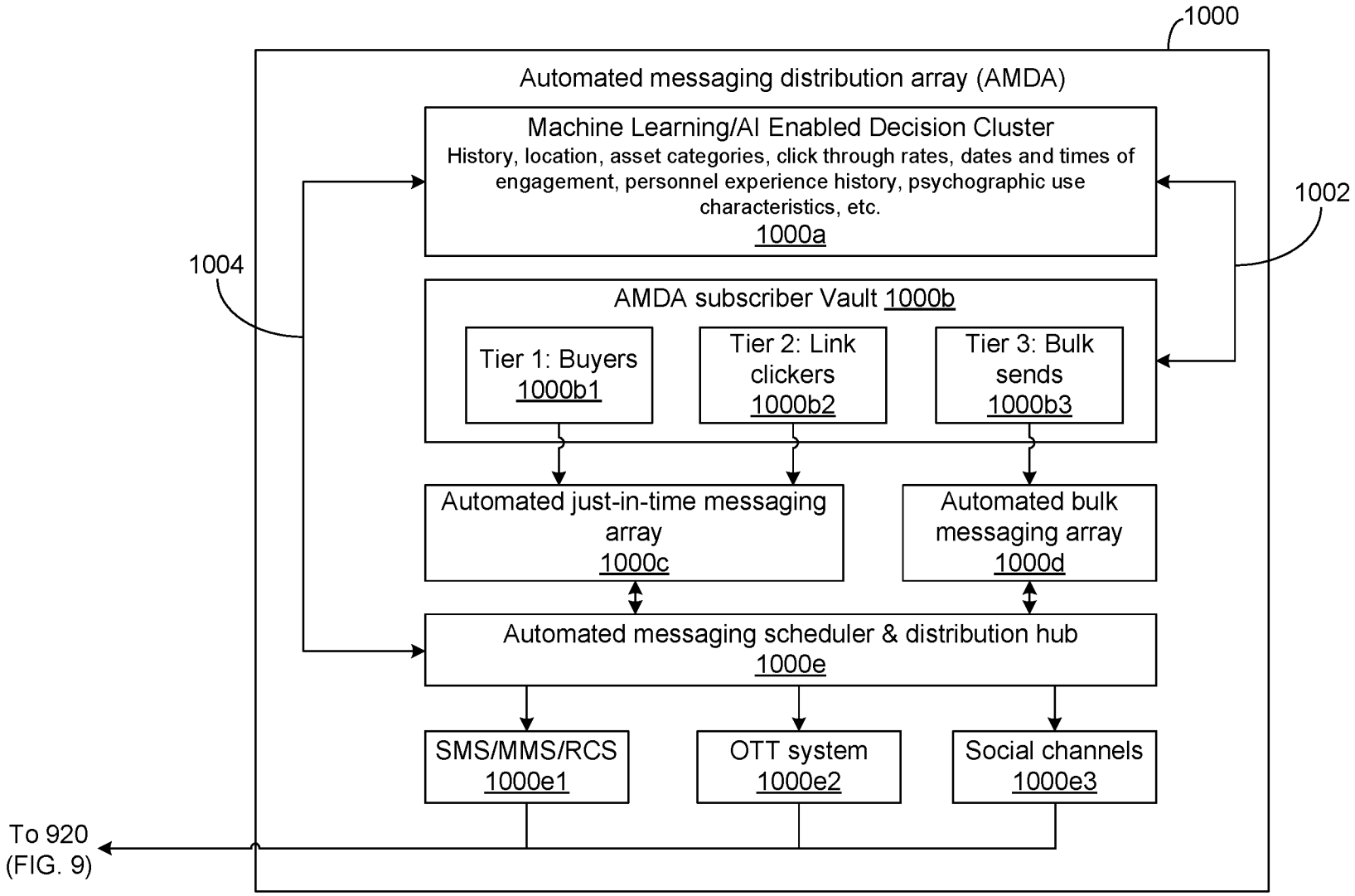
1000
Automated messaging distribution array (AMDA)
Machine Learning/AI Enabled Decision Cluster
History, location, asset categories, click through rates, dates and times of engagement, personnel experience history, psychographic use characteristics, etc.
1000a
1002
1004
AMDA subscriber Vault 1000b
Tier 1: Buyers 1000b1
Tier 2: Link clickers 1000b2
Tier 3: Bulk sends 1000b3
Automated just-in-time messaging array 1000c
Automated bulk messaging array 1000d
Automated messaging scheduler & distribution hub 1000e
SMS/MMS/RCS 1000e1
OTT system 1000e2
Social channels 1000e3
To 920 (FIG. 9)

FIG. 10

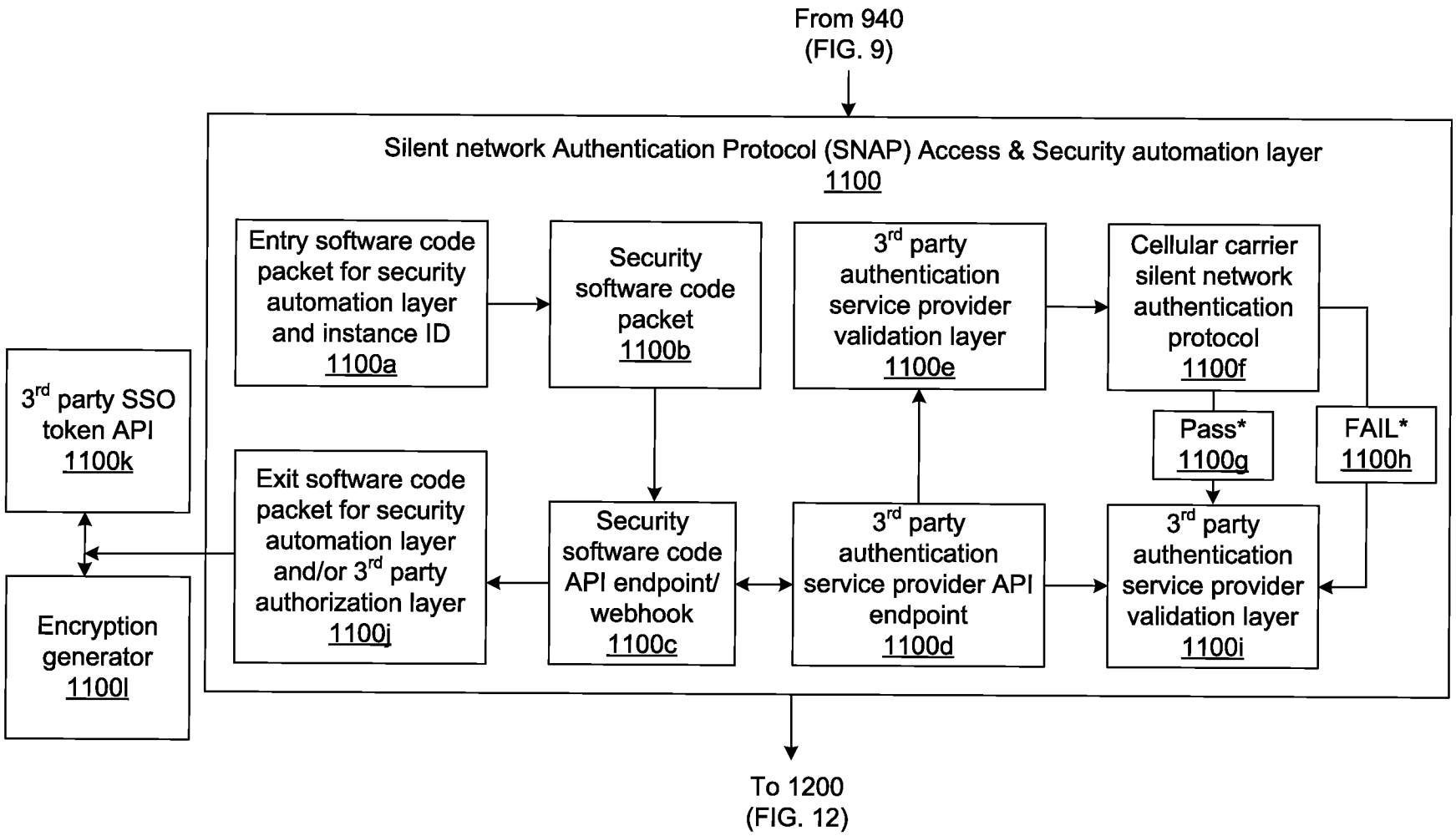
From 940
(FIG. 9)
Silent network Authentication Protocol (SNAP) Access & Security automation layer
1100
Entry software code packet for security automation layer and instance ID
1100a
Security software code packet
1100b
3rd party authentication service provider validation layer
1100e
Cellular carrier silent network authentication protocol
1100f
Pass*
1100g
FAIL*
1100h
3rd party SSO token API
1100k
Exit software code packet for security automation layer and/or 3rd party authorization layer
1100j
Security software code API endpoint/ webhook
1100c
3rd party authentication service provider API endpoint
1100d
3rd party authentication service provider validation layer
1100i
Encryption generator
1100l
To 1200
(FIG. 12)

FIG. 11

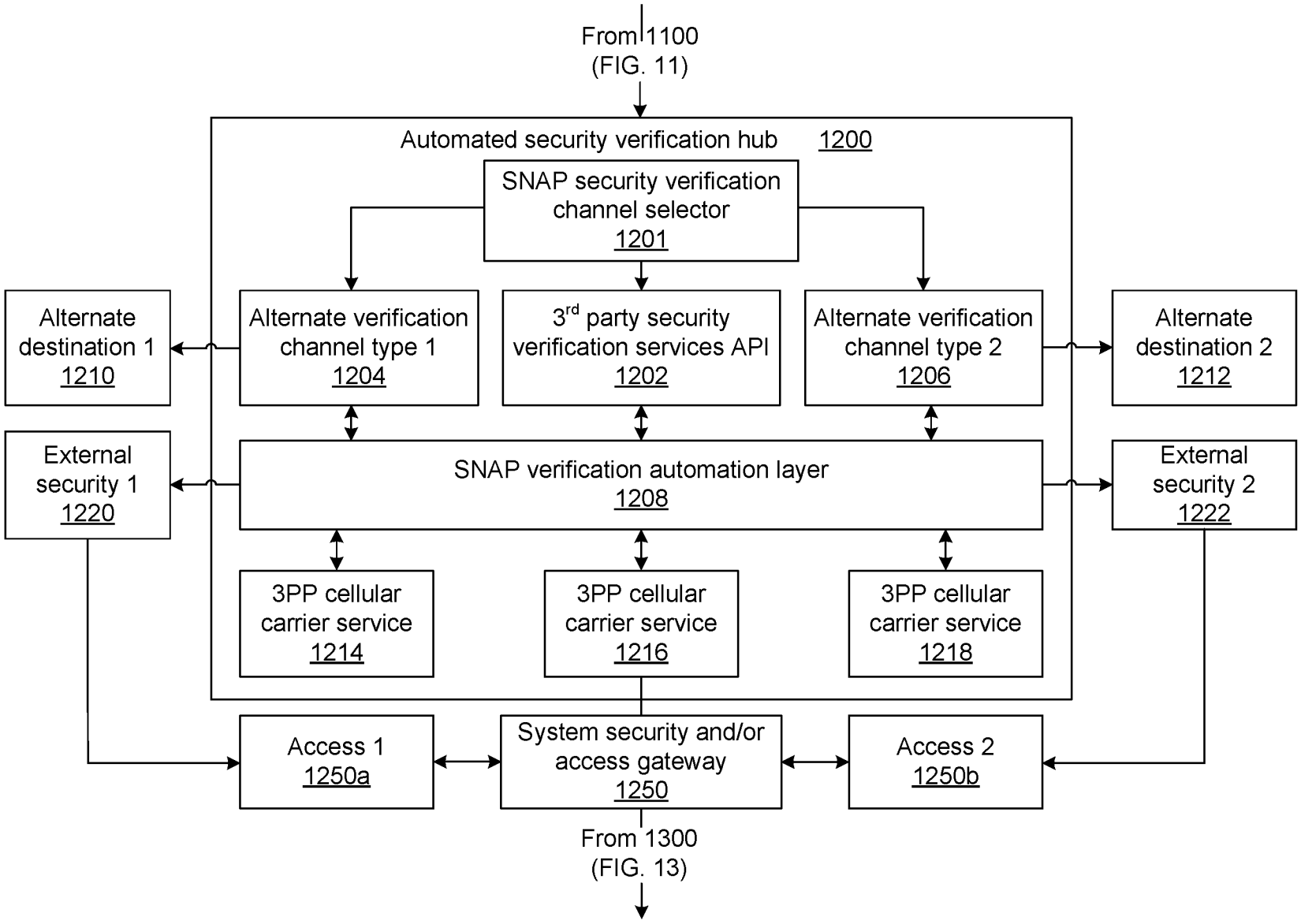
From 1100
(FIG. 11)
Automated security verification hub 1200
SNAP security verification channel selector 1201
Alternate destination 1 1210
Alternate verification channel type 1 1204
3rd party security verification services API 1202
Alternate verification channel type 2 1206
Alternate destination 2 1212
External security 1 1220
SNAP verification automation layer 1208
External security 2 1222
3PP cellular carrier service 1214
3PP cellular carrier service 1216
3PP cellular carrier service 1218
Access 1 1250a
System security and/or access gateway 1250
Access 2 1250b
From 1300
(FIG. 13)

FIG. 12

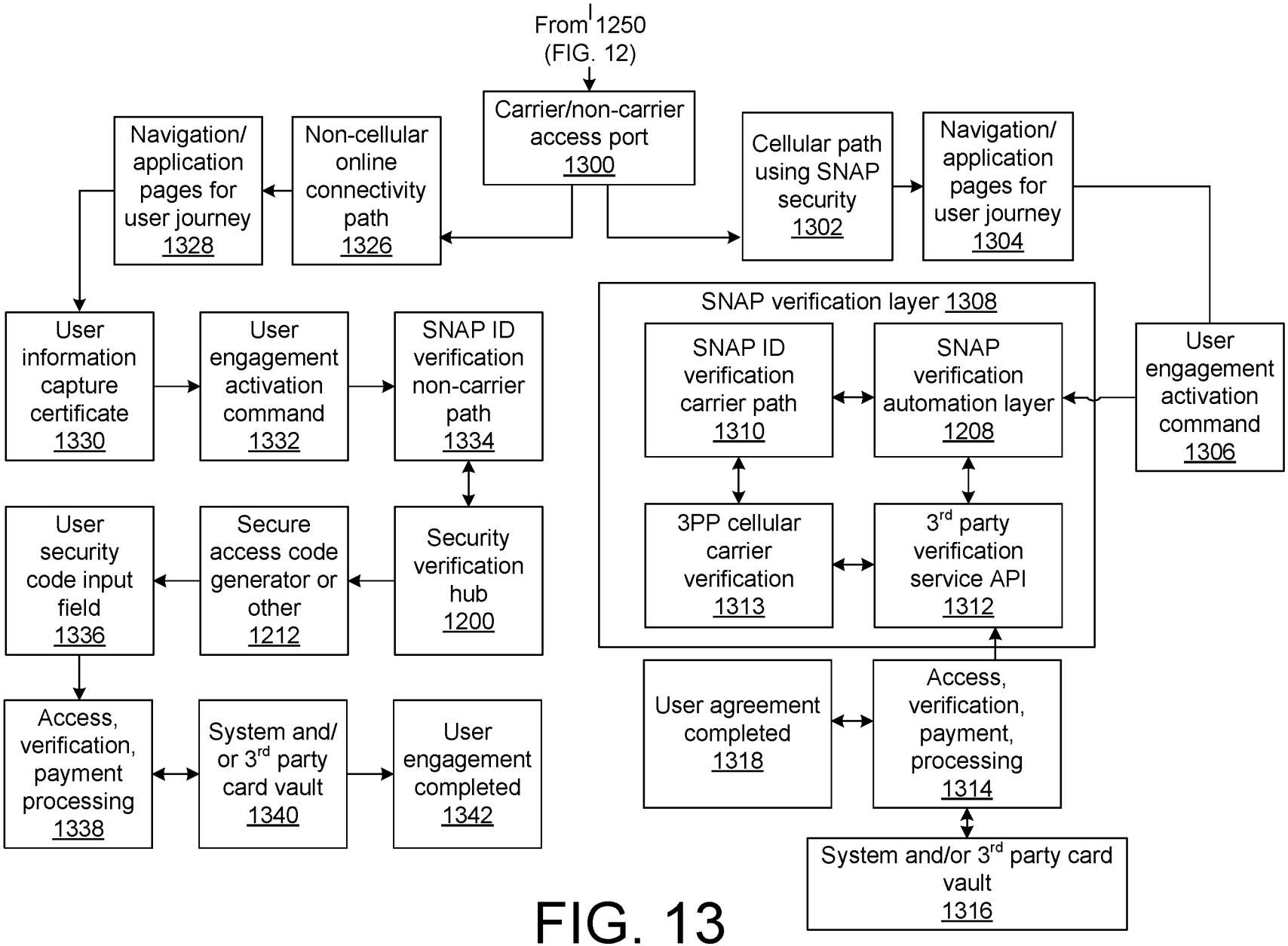
From 1250
(FIG. 12)
Carrier/non-carrier access port 1300
Navigation/ application pages for user journey 1328
Non-cellular online connectivity path 1326
Cellular path using SNAP security 1302
Navigation/ application pages for user journey 1304
SNAP verification layer 1308
SNAP ID verification carrier path 1310
SNAP verification automation layer 1208
User engagement activation command 1306
3PP cellular carrier verification 1313
3rd party verification service API 1312
User information capture certificate 1330
User engagement activation command 1332
SNAP ID verification non-carrier path 1334
User security code input field 1336
Secure access code generator or other 1212
Security verification hub 1200
Access, verification, payment processing 1338
System and/ or 3rd party card vault 1340
User engagement completed 1342
User agreement completed 1318
Access, verification, payment, processing 1314
System and/or 3rd party card vault 1316

FIG. 13

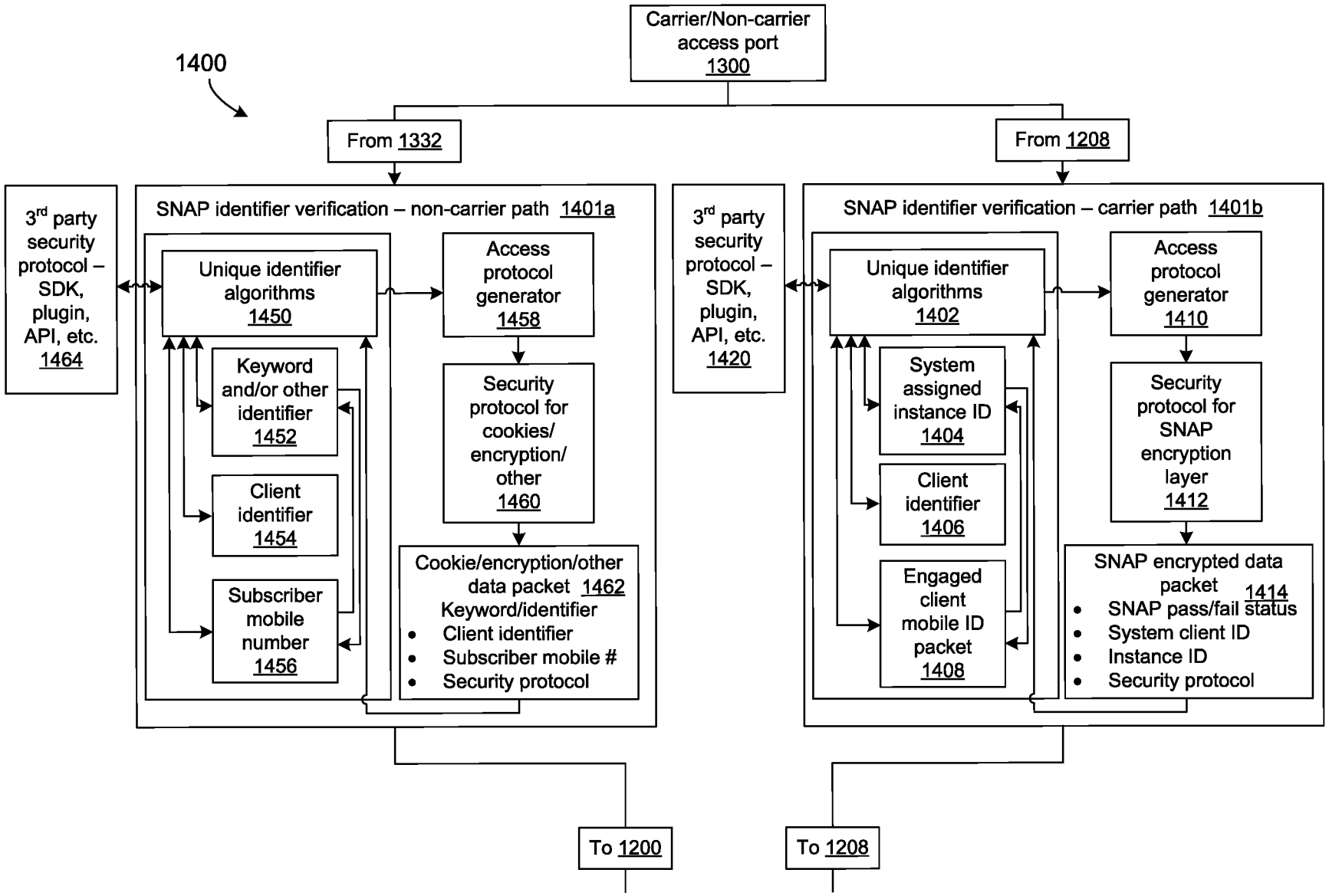
1400
Carrier/Non-carrier access port 1300
From 1332
From 1208
3rd party security protocol – SDK, plugin, API, etc. 1464
SNAP identifier verification – non-carrier path 1401a
Unique identifier algorithms 1450
Access protocol generator 1458
Keyword and/or other identifier 1452
Security protocol for cookies/ encryption/ other 1460
Client identifier 1454
Subscriber mobile number 1456
Cookie/encryption/other data packet 1462
Keyword/identifier
• Client identifier
• Subscriber mobile #
• Security protocol
3rd party security protocol – SDK, plugin, API, etc. 1420
SNAP identifier verification – carrier path 1401b
Unique identifier algorithms 1402
Access protocol generator 1410
System assigned instance ID 1404
Security protocol for SNAP encryption layer 1412
Client identifier 1406
Engaged client mobile ID packet 1408
SNAP encrypted data packet 1414
• SNAP pass/fail status
• System client ID
• Instance ID
• Security protocol
To 1200
To 1208

FIG. 14

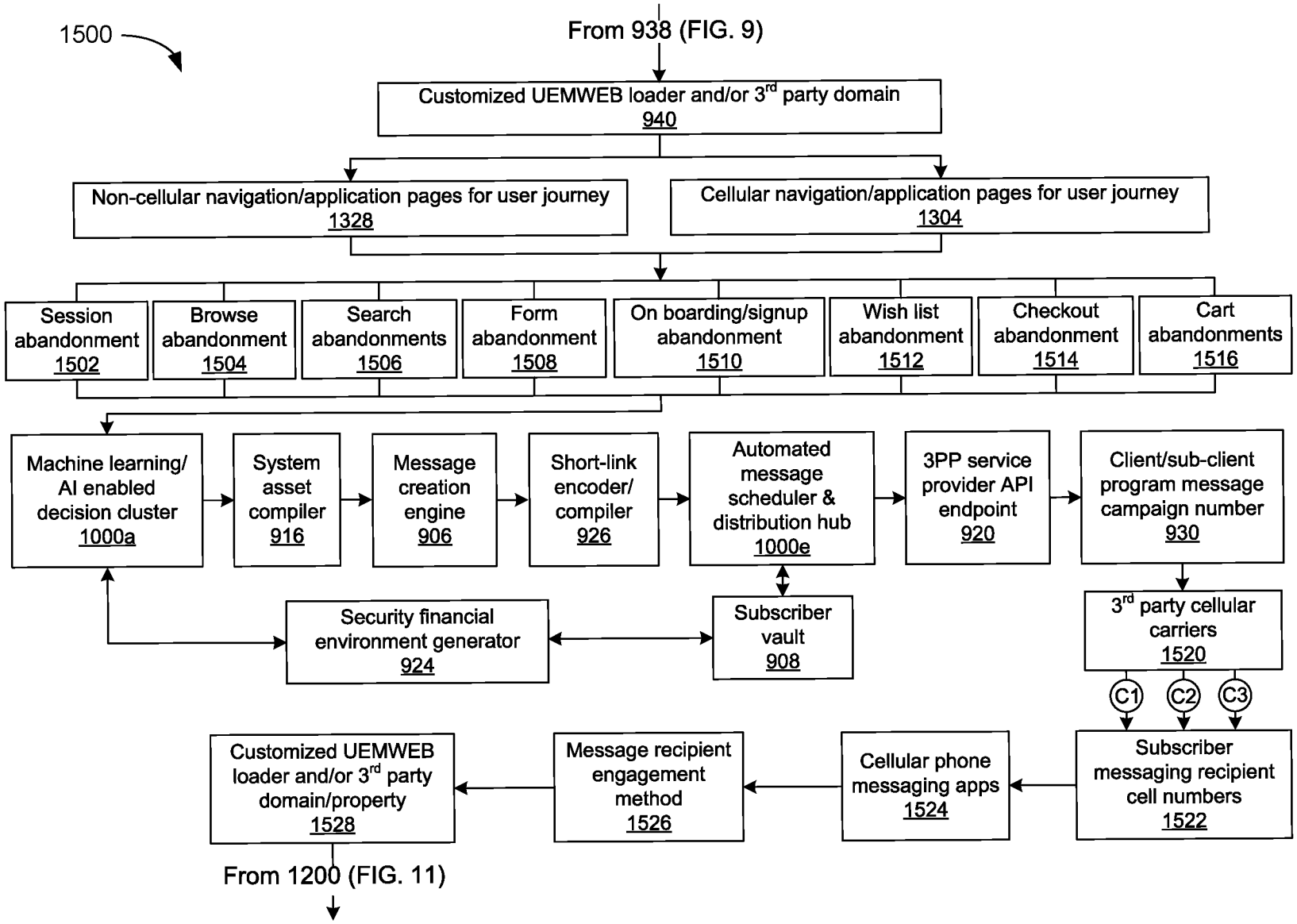
1500
From 938 (FIG. 9)
Customized UEMWEB loader and/or 3rd party domain 940
Non-cellular navigation/application pages for user journey 1328
Cellular navigation/application pages for user journey 1304
Session abandonment 1502
Browse abandonment 1504
Search abandonments 1506
Form abandonment 1508
On boarding/signup abandonment 1510
Wish list abandonment 1512
Checkout abandonment 1514
Cart abandonments 1516
Machine learning/ AI enabled decision cluster 1000a
System asset compiler 916
Message creation engine 906
Short-link encoder/ compiler 926
Automated message scheduler & distribution hub 1000e
3PP service provider API endpoint 920
Client/sub-client program message campaign number 930
Security financial environment generator 924
Subscriber vault 908
3rd party cellular carriers 1520
C1
C2
C3
Customized UEMWEB loader and/or 3rd party domain/property 1528
Message recipient engagement method 1526
Cellular phone messaging apps 1524
Subscriber messaging recipient cell numbers 1522
From 1200 (FIG. 11)

FIG. 15

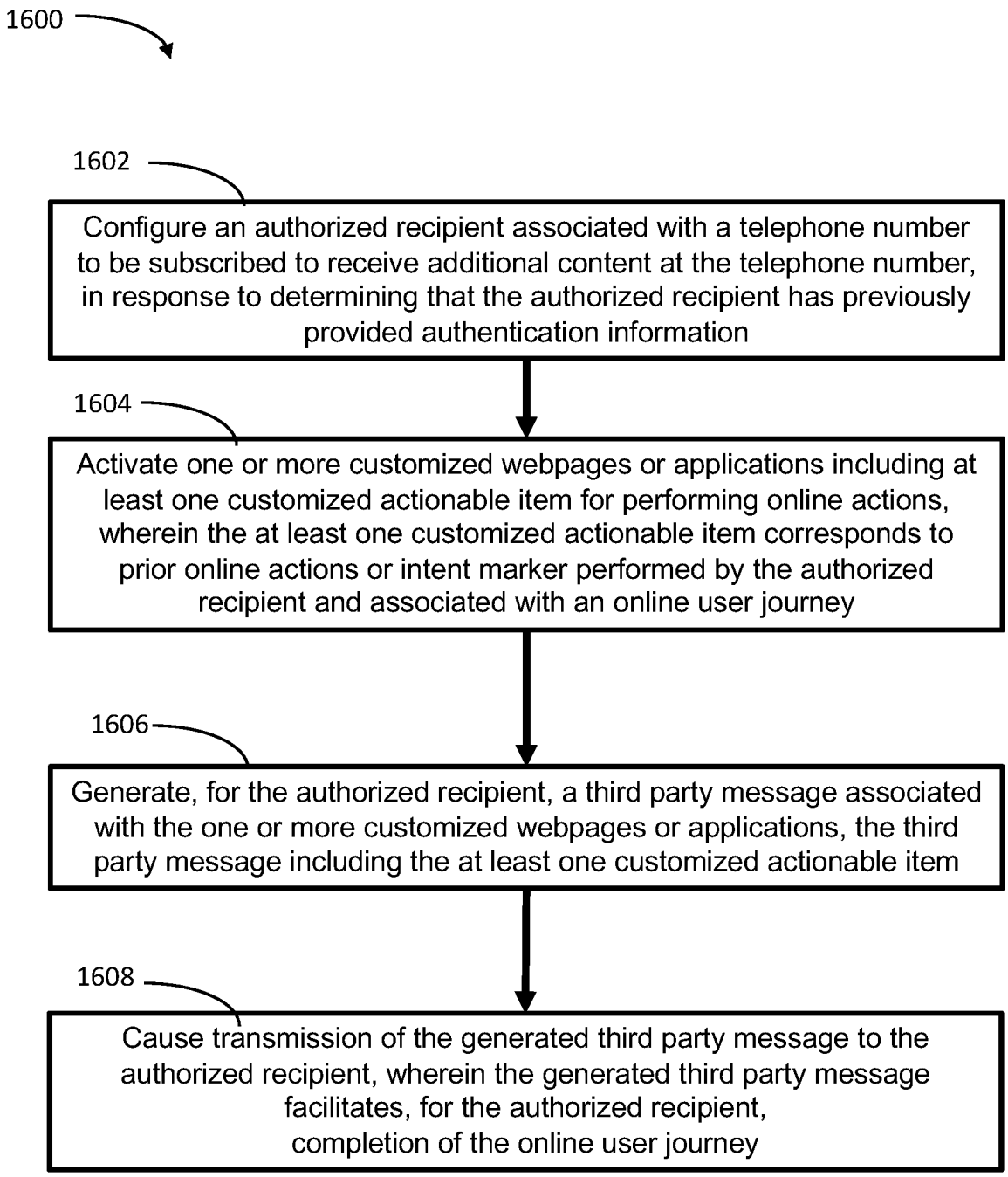
1600
1602
Configure an authorized recipient associated with a telephone number to be subscribed to receive additional content at the telephone number, in response to determining that the authorized recipient has previously provided authentication information
1604
Activate one or more customized webpages or applications including at least one customized actionable item for performing online actions, wherein the at least one customized actionable item corresponds to prior online actions or intent marker performed by the authorized recipient and associated with an online user journey
1606
Generate, for the authorized recipient, a third party message associated with the one or more customized webpages or applications, the third party message including the at least one customized actionable item
1608
Cause transmission of the generated third party message to the authorized recipient, wherein the generated third party message facilitates, for the authorized recipient, completion of the online user journey

FIG. 16

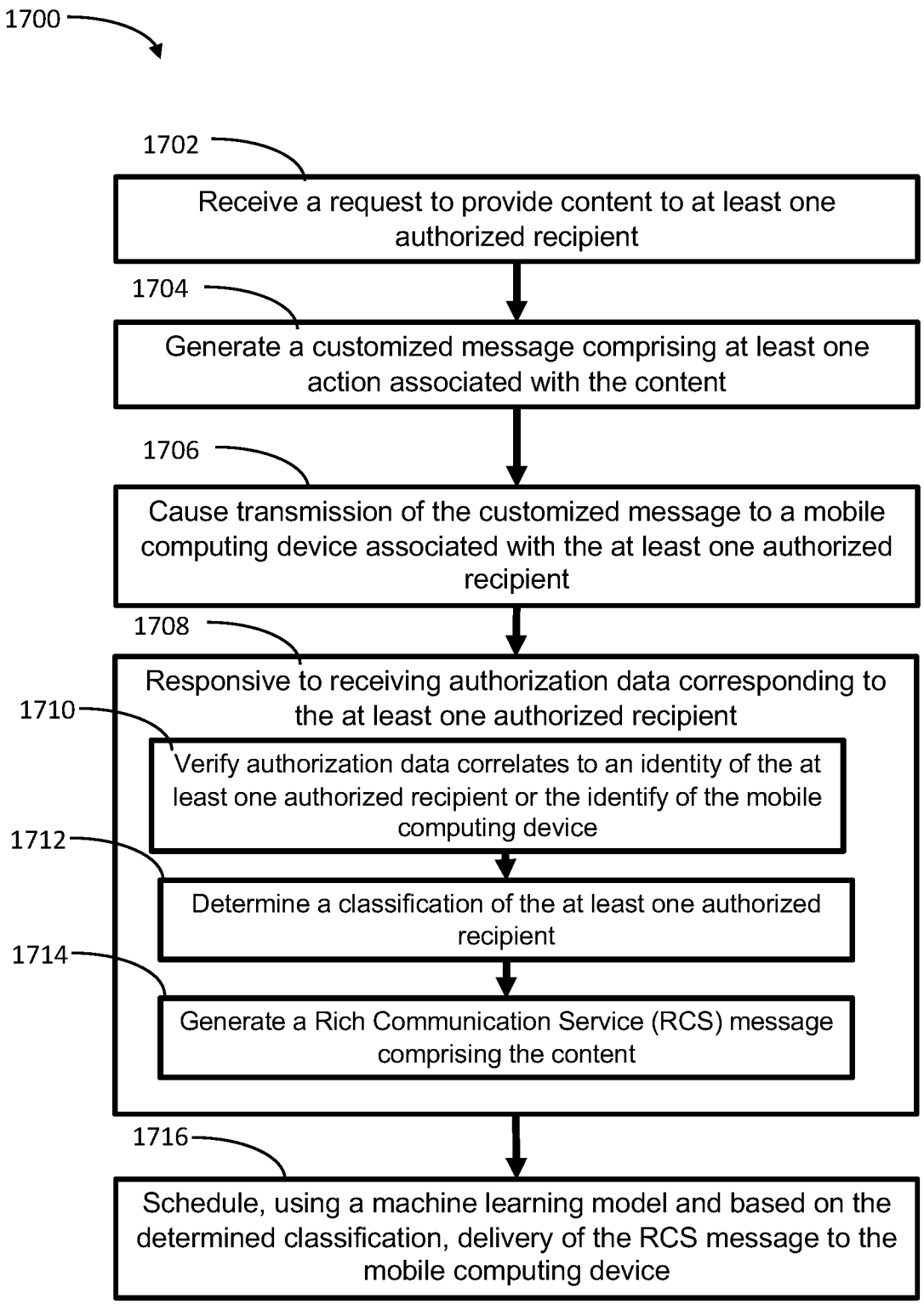
1700
1702
Receive a request to provide content to at least one authorized recipient
1704
Generate a customized message comprising at least one action associated with the content
1706
Cause transmission of the customized message to a mobile computing device associated with the at least one authorized recipient
1708
Responsive to receiving authorization data corresponding to the at least one authorized recipient
1710
Verify authorization data correlates to an identity of the at least one authorized recipient or the identify of the mobile computing device
1712
Determine a classification of the at least one authorized recipient
1714
Generate a Rich Communication Service (RCS) message comprising the content
1716
Schedule, using a machine learning model and based on the determined classification, delivery of the RCS message to the mobile computing device

FIG. 17

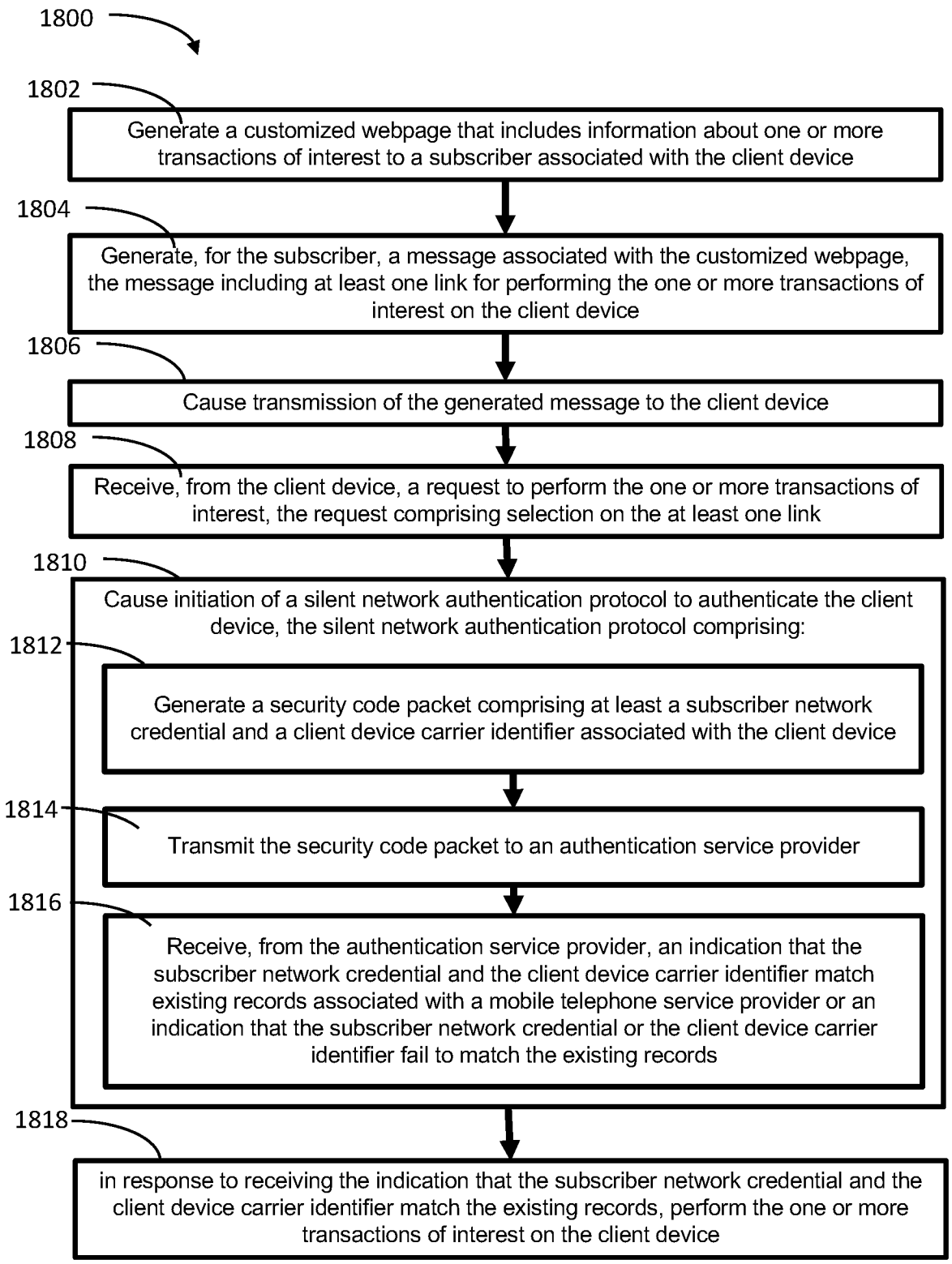
1800
1802
Generate a customized webpage that includes information about one or more transactions of interest to a subscriber associated with the client device
1804
Generate, for the subscriber, a message associated with the customized webpage, the message including at least one link for performing the one or more transactions of interest on the client device
1806
Cause transmission of the generated message to the client device
1808
Receive, from the client device, a request to perform the one or more transactions of interest, the request comprising selection on the at least one link
1810
Cause initiation of a silent network authentication protocol to authenticate the client device, the silent network authentication protocol comprising:
1812
Generate a security code packet comprising at least a subscriber network credential and a client device carrier identifier associated with the client device
1814
Transmit the security code packet to an authentication service provider
1816
Receive, from the authentication service provider, an indication that the subscriber network credential and the client device carrier identifier match existing records associated with a mobile telephone service provider or an indication that the subscriber network credential or the client device carrier identifier fail to match the existing records
1818
in response to receiving the indication that the subscriber network credential and the client device carrier identifier match the existing records, perform the one or more transactions of interest on the client device

FIG. 18

Doc Code: TRACK1.REQ
Document Description: TrackOne Request

PTO/AIA/424 (04-14)

CERTIFICATION AND REQUEST FOR PRIORITIZED EXAMINATION UNDER 37 CFR 1.102(e) (Page 1 of 1)

First Named Inventor:	Sacha Spindler	Nonprovisional Application Number (if known):	
Title of Invention:	AUTOMATED SILENT NETWORK AUTHENTICATION PROTOCOL SECURITY, VERIFICATION, AND ACCESS CONTROL FOR CELLULAR HANDHELD DEVICES		

APPLICANT HEREBY CERTIFIES THE FOLLOWING AND REQUESTS PRIORITIZED EXAMINATION FOR THE ABOVE-IDENTIFIED APPLICATION.

1. The processing fee set forth in 37 CFR 1.17(i)(1) and the prioritized examination fee set forth in 37 CFR 1.17(c) have been filed with the request. The publication fee requirement is met because that fee, set forth in 37 CFR 1.18(d), is currently $0. The basic filing fee, search fee, and examination fee are filed with the request or have been already been paid. I understand that any required excess claims fees or application size fee must be paid for the application.

2. I understand that the application may not contain, or be amended to contain, more than four independent claims, more than thirty total claims, or any multiple dependent claims, and that any request for an extension of time will cause an outstanding Track I request to be dismissed.

3. The applicable box is checked below:

I. ☑ Original Application (Track One) - Prioritized Examination under § 1.102(e)(1)

i. (a) The application is an original nonprovisional utility application filed under 35 U.S.C. 111(a). This certification and request is being filed with the utility application via EFS-Web.

---OR---

(b) The application is an original nonprovisional plant application filed under 35 U.S.C. 111(a). This certification and request is being filed with the plant application in paper.

ii. An executed inventor's oath or declaration under 37 CFR 1.63 or 37 CFR 1.64 for each inventor, **or** the application data sheet meeting the conditions specified in 37 CFR 1.53(f)(3)(i) is filed with the application.

II. ☐ Request for Continued Examination - Prioritized Examination under § 1.102(e)(2)

i. A request for continued examination has been filed with, or prior to, this form.
ii. If the application is a utility application, this certification and request is being filed via EFS-Web.
iii. The application is an original nonprovisional utility application filed under 35 U.S.C. 111(a), or is a national stage entry under 35 U.S.C. 371.
iv. This certification and request is being filed prior to the mailing of a first Office action responsive to the request for continued examination.
v. No prior request for continued examination has been granted prioritized examination status under 37 CFR 1.102(e)(2).

Signature /Kristen J. Hansen/	Date 20240925
Name (Print/Typed) Kristen J. Hansen	Practitioner Registration Number 63,526

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

☑ *Total of 1 forms are submitted.

Privacy Act Statement

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

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

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

AUTOMATED SILENT NETWORK AUTHENTICATION PROTOCOL SECURITY, VERIFICATION, AND ACCESS CONTROL FOR CELLULAR HANDHELD DEVICES

CROSS-REFERENCE TO RELATED APPLICATIONS

[0001] This application is a continuation-in-part of U.S. Application No. 18/483,670, filed March 30, 2023, which is a continuation of U.S. Application No. 18/193,163, filed March 24, 2021, which is a continuation of U.S. Application No. 17/279,188, filed March 24, 2021, which is a U.S. National Stage Entry of PCT/US19/52847, filed September 25, 2019, that claims the priority benefit of U.S. Provisional Patent Application Ser. No. 62/737,315, filed September 27, 2018, the contents of each of which are herein incorporated by reference in their entireties.

INCORPORATION BY REFERENCE

[0002] All publications and patent applications mentioned in this specification are herein incorporated by reference in their entirety, as if each individual publication or patent application was specifically and individually indicated to be incorporated by reference in its entirety.

TECHNICAL FIELD

[0003] This disclosure relates generally to the field of security and access control for cellular handheld devices.

BACKGROUND

[0004] The described embodiments relate, generally, to techniques for performing transactions using dynamically generated customized webpages. The ease of use and widespread availability of networks, such as the Internet, have made it much easier for people to perform online transactions, such as purchasing products or services (which are sometimes referred to as 'e-commerce'). However, the popularity of such online transactions has resulted in increased incidents of fraud and other criminal activity. This criminal behavior undermines people's trust and, thus, constrains people's willingness to conduct transactions via networks.

[0005] Moreover, many webpages or websites have largely static content that is presented or served to all visitors. For example, visitors to a particular web site may be steered to a common landing webpage. While this one-size-fits-all approach is efficient and can be easily scaled, it often results in a cumbersome user experience, as visitors are forced to navigate through the content on a webpage or website in an attempt to find relevant or interesting information. Consequently, the negative user experience associated with many webpages and websites also restricts use and, thus, people's willingness to conduct transactions.

SUMMARY

[0006] There is a need for new and useful systems and methods for providing secure access and authentication when using mobile devices to access and/or purchase content. In some aspects, the techniques described herein relate to a computer-implemented method including: receiving a request to provide content to at least one authorized recipient; generating a customized message including at least one action associated with the content; causing transmission of the customized message to a mobile computing device associated with the at least one authorized recipient; responsive to receiving an indication associated with selecting the at least one action, requesting authorization data corresponding to the at least one authorized recipient; responsive to receiving the requested authorization data: verifying that the authorization data correlates to an identity of the at least one authorized recipient or an identity of the mobile computing device; determining, based on the identity of the at least one authorized recipient or the identity of the mobile computing device, a classification of the at least one authorized recipient; and generating a Rich Communication Service (RCS) message including the content; and scheduling, using a machine learning model and based on the determined classification, delivery of the RCS message to the mobile computing device.

[0007] In some aspects, the techniques described herein relate to a computer-implemented method, further including: delivering the RCS message to the mobile computing device according to the scheduled delivery.

[0008] In some aspects, the techniques described herein relate to a computer-implemented method, wherein the content includes a carousel of selectable options in a user interface of the mobile computing device, the selectable options including performing at least one secure transaction, scheduling an appointment, or resuming at least one abandoned user journey.

[0009] In some aspects, the techniques described herein relate to a computer-implemented method, wherein the content is provided in the user interface and the user interface is within a browser executing on the mobile computing device.

[0010] In some aspects, the techniques described herein relate to a computer-implemented method, wherein the content includes send and receive indicators provided in a user interface of the mobile computing device that indicate real time typing between an RCS message provider and the mobile computing device or between another computing device and the mobile computing device.

[0011] In some aspects, the techniques described herein relate to a computer-implemented method, further including: determining a sender of the RCS message; responsive to failing to authorize the determined sender of the RCS message, delivering, according to the scheduled delivery, an SMS message indicating a warning about the RCS message.

[0012] In some aspects, the techniques described herein relate to a computer-implemented method, wherein the at least one action associated with the content includes one or more options to: perform a transaction, select a suggested response, return to a prior browsing session, or return to a prior application session.

[0013] In some aspects, the techniques described herein relate to an automated messaging subscription and distribution system, the system including: a processor; and memory configured to store program instructions, wherein, when executed by the processor, the program instructions cause the processor to perform operations including: receiving a request to provide content to at least one service subscriber; generating a customized message including at least one action associated with the content; causing transmission of the customized message to a mobile computing device associated with the at least one service subscriber; responsive to receiving an indication associated with selecting the at least one action, requesting subscription data

corresponding to the at least one service subscriber; responsive to receiving the requested subscription data: verifying that the subscription data correlates to an identity of the at least one service subscriber or an identity of the mobile computing device; determining, based on the identity of the at least one service subscriber or the identity of the mobile computing device, a classification of the at least one subscriber; and generating, based on the determined classification, a Rich Communication Service (RCS) message including the content; and scheduling, using a machine learning model and based on the determined classification, delivery of the RCS message to the mobile computing device.

[0014] In some aspects, the techniques described herein relate to a system, wherein the content includes a carousel of selectable options in a user interface of the mobile computing device, the selectable options including performing at least one secure transaction, scheduling an appointment, or resuming at least one abandoned user journey.

[0015] In some aspects, the techniques described herein relate to a system, wherein the content is provided in the user interface and the user interface is within a browser executing on the mobile computing device.

[0016] In some aspects, the techniques described herein relate to a system, wherein the content includes send and receive indicators provided in a user interface of the mobile computing device that indicate real time typing between an RCS message provider and the mobile computing device or between another computing device and the mobile computing device.

[0017] In some aspects, the techniques described herein relate to a system, wherein the operations further include: determining a sender of the RCS message; responsive to failing to authorize the determined sender of the RCS message, delivering, according to the scheduled delivery, an SMS message indicating a warning about the RCS message.

[0018] In some aspects, the techniques described herein relate to a system, wherein the at least one action associated with the content includes one or more options to: perform a transaction, select a suggested response, return to a prior browsing session, or return to a prior application session.

[0019] In some aspects, the techniques described herein relate to a non-transitory computer-readable storage medium for use in conjunction with a computer, the computer-readable storage medium storing program instructions that, when executed by the computer, cause the computer to carry out one or more operations including: receive a request to provide content to at least one authorized recipient or subscriber; generate a customized message including at least one link associated with the content; cause transmission of the customized message to a mobile computing device associated with the at least one authorized recipient or subscriber; responsive to receiving an indication associated with selecting the at least one link, request subscription data corresponding to the at least one authorized recipient or subscriber; responsive to receiving the requested subscription data: verify that the subscription data correlates to an identity of the at least one authorized recipient or subscriber or an identity of the mobile computing device; determine, based on the identity of the at least one authorized recipient or subscriber or the identity of the mobile computing device, a classification of the at least one authorized recipient or subscriber; and generating a Rich Communication Service (RCS) message including the content; and scheduling, using a machine learning model and based on the determined classification, delivery of the RCS message to the mobile computing device.

[0020] In some aspects, the techniques described herein relate to a non-transitory computer-readable storage medium, wherein the operations further include: delivering the RCS message to the mobile computing device according to the scheduled delivery.

[0021] In some aspects, the techniques described herein relate to a non-transitory computer-readable storage medium, wherein the content includes a carousel of selectable options in a user interface of the mobile computing device, the selectable options including performing at least one secure transaction, scheduling an appointment, or resuming at least one abandoned user journey.

[0022] In some aspects, the techniques described herein relate to a non-transitory computer-readable storage medium, wherein the content is provided in the user interface and the user interface is within a browser executing on the mobile computing device.

[0023] In some aspects, the techniques described herein relate to a non-transitory computer-readable storage medium, wherein the content includes send and receive indicators provided in a user interface of the mobile computing device that indicate real time typing between an RCS message provider and the mobile computing device or between another computing device and the mobile computing device.

[0024] In some aspects, the techniques described herein relate to a non-transitory computer-readable storage medium, wherein the operations further include: determining a sender of the RCS message; responsive to failing to authorize the determined sender of the RCS message, delivering, according to the scheduled delivery, an SMS message indicating a warning about the RCS message.

[0025] In some aspects, the techniques described herein relate to a non-transitory computer-readable storage medium, wherein the at least one link associated with the content includes one or more options to: perform a transaction, select a suggested response, return to a prior browsing session, or return to a prior application session.

[0026] The details of one or more implementations are set forth in the accompanying drawings and the description below. Other features will be apparent from the description and drawings, and from the claims.

BRIEF DESCRIPTION OF THE FIGURES

[0027] FIG. 1 is a block diagram illustrating an example of a system with electronic devices wirelessly communicating in accordance with an embodiment of the present disclosure.

[0028] FIG. 2 is a flow diagram illustrating an example method for dynamically generating a customized document in accordance with an embodiment of the present disclosure.

[0029] FIG. 3 is a drawing illustrating example communication among the electronic devices in FIG. 1 in accordance with an embodiment of the present disclosure.

[0030] FIG. 4 is a drawing illustrating an example of a continuous subscriber flow in accordance with an embodiment of the present disclosure.

[0031] FIG. 5 is a drawing illustrating an example of a secured environment generator in accordance with an embodiment of the present disclosure.

[0032] FIG. 6 is a drawing illustrating an example of the secured environment generator of FIG. 5 in accordance with an embodiment of the present disclosure.

[0033] FIG. 7 is a drawing illustrating an example of the secured environment generator of FIG. 5 in accordance with an embodiment of the present disclosure.

[0034] FIG. 8 is a block diagram illustrating an example of one of the electronic devices of FIG. 1 in accordance with an embodiment of the present disclosure.

[0035] FIG. 9 is a drawing illustrating an example of an automated silent network authentication security and access control system in accordance with an embodiment of the present disclosure.

[0036] FIG. 10 is a drawing illustrating an example of an automated messaging distribution array generator, in accordance with an embodiment of the present disclosure.

[0037] FIG. 11 is a drawing illustrating an example access and security automation layer, in accordance with an embodiment of the present disclosure.

[0038] FIG. 12 is a drawing illustrating an example of an automated security verification hub, in accordance with an embodiment of the present disclosure.

[0039] FIG. 13 is a drawing illustrating an example flow diagram representing selection of a first security protocol or a second security protocol, in accordance with an embodiment of the present disclosure.

[0040] FIG. 14 is a drawing illustrating an example of performing a silent network automated protocol identifier verification process, in accordance with an embodiment of the present disclosure.

[0041] FIG. 15 is a drawing illustrating an example of handling one or more abandoned shopping experiences and/or other abandoned user journeys, in accordance with an embodiment of the present disclosure.

[0042] FIG. 16 is a flow diagram of an example process for providing a user access to one or more abandoned carts or abandoned user journeys, in accordance with an embodiment of the present disclosure.

[0043] FIG. 17 is a flow diagram of an example process for generating and sending rich communication service messages, in accordance with an embodiment of the present disclosure.

[0044] FIG. 18 is a flow diagram of an example process of using silent network authentication protocol process, in accordance with an embodiment of the present disclosure.

[0045] The illustrated implementations are merely examples and are not intended to limit the disclosure. The schematics are drawn to illustrate features and concepts and are not necessarily drawn to scale

DETAILED DESCRIPTION

[0046] Disclosed herein are systems and methods for employing multi-stage access and security mechanisms for mobile devices. The systems and methods may function to generate, provide, and manage messages and links to a user on a mobile and/or cellular computing device. In sending such messages and links, the systems and methods may utilize Rich Communication Services (RCS), Silent Network Authentication (SNA) techniques, biometric analysis techniques, device hardware components (e.g., Subscriber Identity Modules (SIM) cards or other smart card and/or sensors), and automated messaging techniques to provide users with secure access to content as well as secure purchasing capabilities. Additional techniques for utilizing such security with a previously abandoned shopping cart are also described.

[0047] In operation, the techniques described herein may utilize an Automated Messaging Distribution Array (AMDA) system. The AMDA system may represent an integration of various technologies described herein aimed at optimizing and personalizing messaging campaigns across multiple communication channels such as Short Message Service (SMS), Multimedia Message Service (MMS), RCS, and Over-the-Top (OTT) platforms. The AMDA system may leverage Machine Learning (ML) and/or Artificial Intelligence (AI) techniques to analyze subscriber data, automate decision-making processes, and deliver targeted and secure content to users based on individual preferences and behaviors. For example, the AMDA system may utilize an AI/ML

framework to parse extensive subscriber data and derive actionable insights. This may include classifying subscribers into different tiers based on subscriber engagement levels and predicting convenient or targeted messaging times and content preferences for subscribers while accounting for SMS, MMS, Federal Communications Commission (FCC), and Telephone Consumer Protection Act (TCPA) regulations associated with contacting consumers. The AI techniques used herein may enable dynamic and responsive campaign management that adapts to real time feedback and changes in subscriber behavior.

[0048] The AMDA systems described herein may provide an advantage of enhancing the effectiveness and efficiency of messaging campaigns by providing improvements over conventional messaging systems in terms of security, user engagement, and operational scalability. For example, the AMDA system may provide improvements in the field of automated messaging and communication technology, as described elsewhere herein.

[0049] The AMDA systems described herein may utilize an integrated multichannel communication methodology to seamlessly integrate various messaging formats and channels into a single, unified system. This capability allows businesses to manage diverse communication strategies through a central dashboard, for example, thereby enhancing the efficiency and coherence of messaging campaigns. The AMDA systems may provide advancement over conventional, siloed communication tools by using AI-insights to manage and optimize the use of different communication channels.

[0050] The techniques described herein may utilize Security and Authentication Protocols such as a Silent Network Authentication Protocol (e.g., SNA or SNAP). SNAP may provide a security framework within the AMDA system that ensures that communications and accesses performed on the system are securely managed through encryption and authentication mechanisms. SNAP's ability to provide secure, seamless authentication and data protection without compromising the user experience allows for security to occur for subscribers without burdening subscribers with conventional security protocols such as two-factor authentication using keywords, PIN codes, etc. However, the systems described herein may allow for a user to instead

utilize conventional security protocols in the event that a device, transaction, or subscriber is not configured to support SNAP.

[0051] A technical problem solved by the systems and methods described herein includes determining how and when to present content, messages, opportunities, user journeys, user journey resumption to a user or subscriber of a messaging service, an app, an application, a browser, or other online or offline accessible data.

[0052] The systems and methods described herein provide a technical solution to the technical problem. The technical solution may include generating messages and interactive user interfaces within such messages that are customized to a user (e.g., subscriber, service subscriber, application user, browser user, authorized recipient, etc.) and sent to the user according to a schedule determined based on user behavior, determined convenience, and/or user preferences while maintaining messaging protocols for messaging laws including, but not limited to SMS/MMS/RCS messaging guidelines, Federal Communications Commission (FCC) regulations, and Telephone Consumer Protection Act (TCPA) regulations associated with contacting consumers.

[0053] The technical solutions provided by the systems and methods described herein are an improvement over conventional security and messaging systems because each message is customized for each user with customized content determined to be relevant to the particular user. Customized text, rich media (e.g., images, videos, audio messages), and/or interactive elements (e.g., links, carousels, quick reply user interface elements, actions, or other actionable interactive content etc.), read receipts, and/or typing indicators may be included in the customized messages. By contrast, conventional text and/or RCS messaging systems may include customized addresses or name salutations, but do not customize multiple items representing specific interactive content in the messages based on prior user behavior such as browsing, shopping, abandonment of activities, form completions, search journeys, or other user journeys performed in an application or browser. For example, the systems and methods described herein may provide a solution that includes an RCS message that may include any combination of customized text and images, rich media (e.g., images, videos, audio messages), and/or interactive elements (e.g., links, carousels,

quick reply user interface elements, actions, or other actionable interactive content etc.), read receipts, and/or typing indicators, each of which may benefit from the utilization of the SNAP security protocol in such a manner that the content to be accessed triggers approval by silent authentication prior to access being granted. Another example could be related to a product, event, e-commerce opportunity, etc. purchase process being accessed within the RCS message itself, whereby the silent authentication may be utilized to run the verification checks that validate the purchaser credentials and enable the transaction to be completed.

[0054] A computer that dynamically generates a customized second document is described. During operation, the computer receives information specifying activation of a hosted field in a document associated with a third party (or potential client), where the information specifies a willingness to receive one or more messages from the computer and specifies a telephone number. In response, the computer dynamically generates a customized second document that includes information about one or more transactions (such as one or more upcoming events) of interest to an individual (or potential subscriber customer) associated with the telephone number. Then, the computer sends a message to an address corresponding to the telephone number, where the message includes a link to the customized second document. Next, when the computer receives information specifying activation of the link from an electronic device, the computer provides information specifying the customized second document to the electronic device for display on the electronic device.

[0055] By providing the dynamically generated customized second document, this communication technique facilitates secure performance of a given transaction in the one or more transactions. Moreover, the dynamically generated customized second document may include customized content that is relevant to the individual (or potential subscriber customer). This may allow the individual (or potential subscriber customer) to directly access information that is of interest to them. Consequently, the communication technique may simplify the user experience, thereby increasing the likelihood that the individual (or potential subscriber customer) conducts the given transaction. In the process, the communication technique may increase satisfaction of

the individual (or potential subscriber customer) and an entity associated with the one or more transactions, such as an event organizer (or potential client).

[0056] In the discussion that follows, electronic devices and computers may include radios or, more generally, network interfaces that communicate packets or frames in accordance with one or more communication protocols, such as: an Institute of Electrical and Electronics Engineers (IEEE) 802.11 standard (which is sometimes referred to as 'Wi-Fi®,' from the Wi-Fi® Alliance of Austin, Texas), Bluetooth™ (from the Bluetooth Special Interest Group of Kirkland, Washington), a cellular-telephone communication protocol, another type of wireless interface, a wired network communication protocol (e.g., Ethernet, Ethernet II or an IEEE 802.3 standard, which are individually or collectively henceforth referred to as 'Ethernet') and/or another network communication protocol. For example, the cellular-telephone communication protocol may include or may be compatible with: a second generation or mobile telecommunication technology, a third generation of mobile telecommunications technology (such as a communication protocol that complies with the International Mobile Telecommunications-2000 specifications by the International Telecommunication Union of Geneva, Switzerland), a 4th generation of mobile telecommunications technology (such as a communication protocol that complies with the International Mobile Telecommunications Advanced specification by the International Telecommunication Union of Geneva, Switzerland), and/or another cellular-telephone communication technique. In some embodiments, the communication protocol includes Long Term Evolution or LTE. However, a wide variety of communication protocols may be used. In addition, the communication may occur via a wide variety of frequency bands. In the discussion that follows, Ethernet (which is sometimes referred to as a 'non-wireless communication technique' or protocol) is used as an illustrative example.

[0057] Communication among electronic devices is shown in FIG. 1, which presents a block diagram illustrating an example of a system 100 that includes electronic devices 110 (such as a computer, a portable electronic device, a cellular telephone, a tablet computer, a smartwatch, a wearable device, etc.), computer 112 (such as a cloud-based computer or server), and hosting computer 114 that communicate with each other using wired (or non-wireless communication) via

network 116 (such as the Internet) and/or optional wireless communication via a cellular-telephone network 118 (e.g., via an optional base station 120), a wireless local area network (e.g., via an optional access point 122) and/or a another wireless communication technique. Note that the optional access point 122 may provide access to network 116, such as the Internet, via an Ethernet protocol, and may be a physical access point or a virtual or 'software' access point that is implemented on a computer or an electronic device.

[0058] As described further below with reference to FIGs. 2-3, computer 112 may inject a hosted field into a document provided by hosting computer 114. For example, computer 112 may provide, via network 116, the hosted field for inclusion in a webpage associated with a third party (i.e., that is other than a provider of the communication technique), and that is provided, via network 116 and cellular-telephone network 118 (or the optional access point 122), by hosting computer to one of electronic devices 110 (such as electronic device 110-1). An application (such as a Web browser) executed in an environment of electronic device 110-1 (such as an operating system) may display the document. Note that the hosted field may allow a user of electronic device 110-1 (who is sometimes referred to as an 'individual') to indicate a willingness to receive one or more messages from computer 112 and that specifies a telephone number associated with electronic device 110-1. Such users may be called a subscriber customer.

[0059] When the user or subscriber customer activates the hosted field and provides the telephone number, electronic device 110-1 may provide, via network 116 and cellular-telephone network 118 (or the optional access point 122), information specifying activation of the hosted field in the document and the telephone number to hosting computer 114. In turn, hosting computer 114 may provide, via network 116, this information to computer 112.

[0060] After receiving the information specifying activation of the hosted field in the document, computer 112 may dynamically generate a customized second document (such as a webpage) that includes information about one or more transactions (such as one or more upcoming events) of interest to the individual or subscriber customer associated with the telephone number. Then, computer 112 may send a message to an address corresponding to the telephone number, where the message includes a link to the customized second document. For example, the message

may be sent via network 116 and cellular-telephone network 118 (or the optional access point 122). Note that the message may include an SMS message (which is sometimes referred to as a 'text message').

[0061] Moreover, after receiving the message, electronic device 110-1 may display the message. If the individual or subscriber customer activates the link, electronic device 110-1 may provide, via network 116 and cellular-telephone network 118 (or the optional access point 122), information specifying activation of the link to computer 112.

[0062] When computer 112 receives information specifying activation of the link from electronic device 110-1, computer 112 may provide, via network 116 and cellular-telephone network 118 (or the optional access point 122), information specifying the customized second document to electronic device 110-1 for display on the electronic device (such as by the application executing on electronic device 110-1). Furthermore, as described further below, computer 112 may provide, via network 116 and cellular-telephone network 118 (or the optional access point 122), authentication information (such as an authentication cookie) to electronic device 110-1 to authenticate completion of a given transaction in the one or more transactions. Note that the authentication information may be valid for a predefined time interval, such as 1 day, a week, or a month. After this predefined time interval has elapsed, the authentication information may expire.

[0063] Additionally, the customized second document may allow completion of the given transaction in the one or more transactions, such as purchasing one or more tickets to an upcoming event. For example, the individual or subscriber customer may interact with the customized second document to provide, via network 116 and cellular-telephone network 118 (or the optional access point 122), to exchange information with computer 112 to complete the transaction As noted previously, a purchase request received from electronic device 110-1 and associated with the customized second document may be rejected by computer 112 if the authentication information is not stored on electronic device 110-1.

[0064] In some embodiments, after receiving the information specifying activation of the hosted field, computer 112 may confirm that the telephone number is included in a data structure (such as a data structure with information about subscribers to a transaction service) prior to

dynamically generating the customized webpage. For example, the one or more transactions of interest to the individual or subscriber customer may be associated with an entity (such as an event organizer also referred to herein as a client of the system), and the individual or subscriber may have a subscription with the entity or client. If the telephone number is included in the data structure, computer 112 may proceed and dynamically generate the customized second document. Otherwise, computer 112 may communicate, via network 116 and cellular-telephone network 118 (or the optional access point 122), with electronic device 110-1 to confirm that the individual or subscriber customer wants to receive the one or more messages prior to dynamically generating the customized second document.

[0065] Moreover, the individual or subscriber customer may use electronic device 110-1 to request a dynamically generated customized third document. For example, electronic device 110-1 may provide, via network 116 and cellular-telephone network 118 (or the optional access point 122), a request message with a predefined code (such as an alphanumeric code) addressed to a second address corresponding to a second telephone number associated with computer 112. In response, computer 112 may dynamically generate the customized third document that includes information about one or more additional transactions of interest to the individual or subscriber customer associated with the telephone number. Then, computer 112 may provide, via network 116 and cellular-telephone network 118 (or the optional access point 122), another message addressed to the address corresponding to the telephone number, where the other message includes a link to the customized third document.

[0066] In these ways, the communication techniques may be used to facilitate the conducting of one or more transactions in a secure manner. Moreover, because an instance of the dynamically generated customized document is tailored, at a particular time, to the specific interests of the individual or subscriber customer, the content included in the instance of the customized document may be more relevant to the individual or subscriber customer and immediately actionable (without, e.g., requiring that the individual navigate to content that may be of interest to them). This capability may enhance the user experience of the individual or subscriber customer and may encourage the individual or subscriber customer to perform one or more

transactions. The communication technique may enable a customer capture rate of greater than 10%, 15%, 20%, 25%, or 30%. For example, the customer capture rate may be 14.5%.

[0067] As noted previously, in some embodiments, communication among components in system 100 involves wireless communication. During the wireless communication, electronic devices 110, the optional base station 120 and/or the optional access point 122 may: transmit advertising frames on wireless channels, detect one another by scanning wireless channels, establish wireless connections (for example, by transmitting association requests), and/or transmit and receive packets or frames (which may include the association requests and/or additional information as payloads). Moreover, during the wired communication, electronic devices 110, computer 112, and/or the hosting computer 114 may receive packets or frames using a wired communication technique or protocol (e.g., Ethernet II or an IEEE 802.3 standard). In some embodiments, the optional base station 120 and/or the optional access point 122 may convert packets or frames that are received using the wired communication technique to a WLAN communication technique or protocol (such as an IEEE 802.11 standard or an LTE standard), and may wirelessly transmit the packets or frames. Similarly, the optional base station 120 and/or the optional access point 122 may: receive packets or frames using the WLAN communication technique; convert the packets or frames to the wired communication technique; and transmit the packets or frames. Thus, the optional base station 118 and/or the optional access point 122 may perform the functions of an access point.

[0068] As described further below with reference to FIG. 8, electronic devices 110, computer 112, hosting computer 114, the optional base station 120 and/or the optional access point 122 may include subsystems, such as: a networking subsystem, a memory subsystem and a processor subsystem. In addition, electronic devices 110, computer 112, hosting computer 114, the optional base station 120 and/or the optional access point 122 may include radios 124 in the networking subsystems. (Note that radios 124 may be instances of the same radio or may be different from each other.) More generally, electronic devices 110, computer 112, hosting computer 114, the optional base station 120 and/or the optional access point 122 can include (or can be included within) any electronic devices with the networking subsystems that enable

electronic devices 110, computer 112, hosting computer 114, the optional base station 120 and/or the optional access point 122 to communicate with each other using wired communication (e.g., a non-wireless communication technique) and/or optional wireless communication. The optional wireless communication can comprise transmitting advertisements on wireless channels to enable electronic devices to make initial contact or detect each other, followed by exchanging subsequent data/management frames (such as association requests and responses) to establish a wireless connection, configure security options (e.g., Internet Protocol Security), and transmit and receive packets or frames via the wireless connection, etc.

[0069] As can be seen in FIG. 1, wireless signals 126 (represented by a jagged line) are optionally transmitted from radio 124-1 in electronic device 110-1. These wireless signals are optionally received by at least the optional access point 122. Notably, electronic device 110-1 may optionally transmit packets. In turn, these packets may be optionally received by a radio 124-2 in the optional access point 122. This may allow electronic device 110-1 to wirelessly communicate information to the optional access point 122. While FIG. 1 illustrates electronic device 110-1 transmitting packets, note that electronic device 110-1 may also receive packets from the optional access point 122.

[0070] In the described embodiments, processing of a packet or frame in electronic devices 110, the optional base station 120 and/or the optional access point 122 includes: receiving signals (such as wireless signals 126) with the packet or frame; decoding/extracting the packet or frame from the received signals to acquire the packet or frame; and processing the packet or frame to determine information contained in the packet or frame.

[0071] Note that the communication among electronic devices 110, computer 112, the hosting computer 114, the optional base station 120 and/or the optional access point 122 may be characterized by a variety of performance metrics, such as: a data rate, a data rate for successful communication (which is sometimes referred to as a 'throughput'), an error rate (such as a retry or resend rate), a mean-square error of equalized signals relative to an equalization target, intersymbol interference, multipath interference, a signal-to-noise ratio, a width of an eye pattern, a ratio of number of bytes successfully communicated during a time interval (such as 1-10 s) to an estimated

maximum number of bytes that can be communicated in the time interval (the latter of which is sometimes referred to as the 'capacity' of a channel or link), and/or a ratio of an actual data rate to an estimated data rate (which is sometimes referred to as 'utilization').

[0072] In these ways, the communication techniques may provide an efficient and secure way for the individual to receive relevant content and to conduct one or more transactions.

[0073] Although we describe the network environment shown in FIG. 1 as an example, in alternative embodiments, different numbers or types of electronic devices may be present. For example, some embodiments comprise more or fewer electronic devices. As another example, in another embodiment, different electronic devices are transmitting and/or receiving packets or frames. While electronic devices 110 and optional access point 122 are illustrated with a single instance of radios 124, in other embodiments, electronic devices 110, optional access point 120 and/or another component in system 100 may include multiple radios.

[0074] FIG. 2 presents a flow diagram illustrating example method 200 for dynamically generating a customized document, which may be performed by a computer (such as computer 112 in FIG. 1). During operation, the computer may receive information (operation 210) specifying activation of a hosted field in a document associated with a third party or client, where the information specifies a willingness to receive one or more messages from the computer and specifies a telephone number. Note that the document may be a third-party or client webpage.

[0075] In response, the computer may dynamically generate a customized second document (operation 212) that includes information about one or more transactions (such as one or more upcoming events) of interest to an individual or subscriber customer associated with the telephone number. Notably, the customized second document may include a webpage. In some embodiments, the one or more transactions of interest to the individual or subscriber customer may be associated with an entity (such as an event organizer), and the individual or subscriber customer may have a subscription with the entity.

[0076] Then, the computer may send a message (operation 214) to an address corresponding to the telephone number, where the message includes a link to the customized second document. For example, the message may include an SMS message.

[0077] Next, when the computer receives information (operation 216) specifying activation of the link from an electronic device, the computer may provide information (operation 218) specifying the customized second document to the electronic device for display on the electronic device.

[0078] In some embodiments, the computer optionally performs one or more additional operations (operation 220). For example, the customized second document may allow completion of a given transaction in the one or more transactions, such as purchasing one or more tickets to an upcoming event. Consequently, the computer may selectively exchange information with the electronic device to perform the given transaction.

[0079] Moreover, the computer may provide authentication information (such as an authentication cookie) to the electronic device to authenticate purchases. For example, a purchase request received by the computer from the electronic device and associated with the customized second document may be rejected if the computer does not receive information that indicates that the authentication information is stored on the electronic device. Note that the authentication information may be valid for a predefined time interval. After this predefined time interval has elapsed, the authentication information may expire.

[0080] Furthermore, after receiving the information specifying activation of the hosted field (operation 210), the computer may confirm that the telephone number is included in a data structure prior to dynamically generating the customized webpage. If the telephone number is included in the data structure, the computer may proceed and dynamically generate the customized second document. Otherwise, the computer may confirm that the individual or subscriber customer wants to receive the one or more messages prior to dynamically generating the customized second document.

[0081] Additionally, when the computer receives a request message with a predefined code addressed to a second address corresponding to a second telephone number associated with the computer, the computer may dynamically generate a customized third document that includes information about one or more additional transactions of interest to the individual or subscriber customer associated with the telephone number. Then, the computer may provide a second

message addressed to the address corresponding to the telephone number, where the second message includes a link to the customized third document. Note that the code may include an alphanumeric value.

[0082] In some embodiments of method 200, there may be additional or fewer operations. Moreover, there may be different operations. Furthermore, the order of the operations may be changed, and/or two or more operations may be combined into a single operation or performed at least partially in parallel.

[0083] FIG. 3 presents a drawing illustrating example communication between computer 112, hosting computer 114, and electronic device 110-1. During the communication, an interface circuit 316 in electronic device 110-1 may provide information 314 specifying activation of the hosted field in the document. For example, a user of electronic device 110-1 (such as an individual) may use a user-interface device 310 (such as a keyboard, a mouse, a touchpad, a touch-sensitive display, a voice interface, etc.) to activate 308 the hosted field in a webpage of the third party or client. Then, a processor 312 in electronic device 110-1 may provide information 314 to interface circuit 316 with an instruction or a command to communicate it to hosting computer 114.

[0084] After receiving information 314, hosting computer 114 may provide it to computer 112. Then, after receiving information 314, an interface circuit 318 in computer 112 may provide it to processor 320 in computer 112. In response, processor 320 may dynamically generate a customized second document 322 (such as a customized second webpage) that includes information about one or more transactions of interest to the individual or subscriber customer.

[0085] Furthermore, processor 322 may instruct 324 interface circuit 318 to send a message 326 (such as an SMS message) to an address corresponding to the telephone number, where the message includes a link to the customized second document.

[0086] This message may be received by interface circuit 316, which may forward it to processor 312 for display on a display 328 in electronic device 110-1. Next, the individual or subscriber customer may use user-interface device 310 to activate 330 the link. When this occurs, processor 312 may provide information 332 to interface circuit 316 with an instruction or a command to communicate it to computer 112.

[0087] When interface circuit 318 receives information 332 specifying activation of the link, interface circuit 318 may provide it to processor 320. In response, processor 320 may provide information 334 specifying the customized second document 322 to interface circuit 318. In response, interface circuit 318 may provide information 334 to electronic device 110-1.

[0088] After receiving information 334, interface circuit 316 may provide it to processor 312, which displays customized second document 322 on display 328. While FIG. 3 illustrates operations with single or double-sided arrows corresponding, respectively, to unilateral or bilateral communication, in general a given operation in these drawings may involve unilateral or bilateral communication. Note that the communication between components in FIG. 3 may involve communication of one or more packets or frames.

[0089] Moreover, while the preceding discussion illustrates communication of the information specifying activation of the hosted field to computer 112 via hosting computer 114, in other embodiments, electronic device 110-1 communicates this information directly to computer 112.

[0090] Furthermore, while SMS messaging was used in the preceding discussion, different communication channels may be used in other embodiments, e.g., email, Enhanced Messaging Service (EMS), and/or MMS.

[0091] We now describe embodiments of the communication technique. In these embodiments, a 'client' may be a third-party ticket provider or any third-party service or event provider.

[0092] Note that the communication technique may not simply provide a marketing channel for pre-existing content. Instead, the customized webpage (or website) may be created de novo for each subscriber customer or individual. A given subscriber customer cannot hit their webpage without a specific link that is provided to the given subscriber customer. Because the webpage does not exist before the link is created and provided to the given subscriber customer, there may not be another way to access the customized webpage. If the link for the customized second document is shared with a second individual, the second individual may browse content customized for the first individual but will be prohibited from accessing a profile of the first

individual and/or executing a transaction unless the second individual subscribers and provides his/her telephone number. In such a scenario, the 3P message service sends a new link to the second individual that is customized to the second individual, the new link being customized to the second individual. The customized webpage may be curated for the given subscriber customer (e.g., based on a specific industry, events, organizer, etc.). Moreover, the customized webpage may be updated based on user habits, history, preferences, information from third-party application programming interfaces (APIs), etc. The customized webpage may pull in or incorporate additional events that may be of interest to the given subscriber customer. In addition, the communication technique may provide controls and distribute payments. For example, computer 112 (FIG. 1) may create a link that is associated with its own webpage and that can be used to create or conduct a given transaction.

[0093] In some embodiments, if the link for the customized second document may be shared with a second individual, the second individual may browse content customized for the first individual but will be prohibited from accessing a profile of the first individual and/or executing a transaction unless the second individual also has access credentials. If the second individual has access credentials, the link may be accessed and a transaction may be executed using account details, login details, and/or security details associated with the second individual. In such a scenario, the 3P message service can additionally send a new link to the second individual that is customized to the second individual to allow the second individual to execute a transaction (e.g., make one or more purchases, trigger sending of links or messages, etc.).

[0094] In the communication technique, an Amplify Decision Delivery Processor (ADDP) may use a data structure to match, update orders, parse down information, compile links (such as HTML links), and/or provide authorization and financial information.

[0095] In some embodiments, when a client (e.g., electronic device 110-1, electronic device 110-2, computer 112, etc.) encounters the communication technique, e.g., in an application, a continuous subscriber capture (CSC) input may be injected as an input into a purchase form. Moreover, when a client installs the application, computer 112 (FIG. 1) may have access to information and, thus, the ability to sell a wide variety of their inventory.

[0096] Subsequently, when the given subscriber customer encounters a CSC input (and, more generally, a hosted field) in a webpage associated with a client, they may select a box that indicates 'yes' they would like to receive text messages. This 'yes' input may be provided to the ADDP, which may check whether a telephone number of the given subscriber customer is included in the data structure.

[0097] If their telephone number is in the data structure, the ADDP may send a text message to the given subscriber customer with a link to the customized document showing events of interest. Note that if an event organizer or client has one event, the customized document or webpage may only show one event. However, if the event organizer or client has many events, the customized document or webpage may show or include multiple events.

[0098] Alternatively, if the given subscriber customer's telephone number is not in the data structure, the ADDP may send a text message to the given subscriber customer to confirm that they want to receive text messages.

[0099] Furthermore, one or more vaults with financial information may be copied for future payments when the given subscriber customer conducts a transaction via their customized webpage.

[00100] Additionally, the ADDP may create a 'hot' cookie that goes onto the given subscriber customer's electronic device (e.g., cellular telephone) for future payments. This cookie may expire, e.g., after 30 days. If the subscriber customer attempts to use the cookie for a future payment but the cookie expired, the subscriber customer may verify their telephone number via an alphanumeric value sent to their telephone number to reactivate the cookie (make it 'hot' again).

[00101] Note that the given subscriber customer can also access their user profile via the link in the text message.

[00102] In some embodiments, the given subscriber customer can, at any time, get or receive a text message with a link to a customized webpage with events and/or user preferences by sending a text message with, e.g., a 5-digit short code to a telephone number associated with the ADDP. For example, the short code may be: an organizer name and/or a name of a provider of the communication technique (such as 'Amplify').

[00103] The communication technique may address security flaws in existing approaches (such as SIM-case swapping or fraudulent use of a link, etc.). Notably, these problems may be addressed by the use of the 'hot' cookie stored on the given subscriber customer's cellular telephone, because a fraudulent user that does not have the 'hot' cookie will not be able to access transaction information in the customized webpage or conduct a transaction when they activate the link. Thus, the 'hot' cookie may make it very difficult to game the communication technique. In order to thwart SIM swapping, in some embodiments, the communication technique may include a biometric authentication operation, such as facial recognition or recognition of another biometric marker (e.g., fingerprint recognition).

[00104] Furthermore, the ADDP may conduct reviews to verify/validate subscriber customers and their information. For example, the ADDP may review subscriber customer subscriptions (such as the event organizers or client to which a given subscriber customer has subscriptions), customer telephone numbers, etc.

[00105] FIG. 4 presents a drawing illustrating an example of a continuous subscriber customer flow 400, and FIGs. 5-7 presents drawings illustrating an example of a secured environment generator 500. In some embodiments, the communication technique (which is sometimes referred to as 'Amplify') may be implemented in conjunction with a third-party API 402. Notably, a custom integration implementation of Amplify 444 may be provided to the third-party API 402. This may involve access to Amplify 444 being made available inside the third-party API 402 platform to a client (such as an event organizer) that installs a software implementation of Amplify 444. Alternatively or additionally, the client 404 may allow Amplify 444 to access their client platform. For example, the client 404 may provide access codes that enable the client to pass an identifier of their third-party API platform to ADDP 410. As shown in FIG. 5, this may enable the client to create a client keyword 504 (such as an organizer word or short code) that can be texted (command 516a) to a telephone number associated with the ADDP 410 (or computer 112 of FIG. 1) in ADDP 410, which may result in the client becoming an ADDP client. As an ADDP client, the client may gain access to the ADDP text messaging capability via

an Amplify 444 provider 3P messaging service 514. Inventory, events, etc. associated with each client are associated with a vendor ID 518.

[00106] As shown in FIGs. 4-5, as a result of becoming an ADDP client, ADDP 410 may inject a CSC input 406 into client web-purchase forms generated by the third-party API platform 402. This may enable the client 404 to allow their subscriber customers 408 to trigger the CSC input 406 to command 516 ADDP 410 to commence subscriber customer capture as an Amplify subscriber via a cellular telephone number 422 (which is sometimes referred to as a 'subscriber number') input by a subscriber customer 408 in client web-purchase forms generated by the third-party API 402.

[00107] ADDP 410 may flag a subscriber customer identifier (ID) 412 to the third-party API platform 402 for future reference and action. For example, ADDP may trigger the 3P messaging service 446 to send a text message with a unique e-commerce micro-website (e.g., a UEMWEB) abstract link (which was generated by ADDP). This micro-website may include client ticket purchase opportunities for the subscriber customer.

[00108] When the subscriber customer 414 clicks or activates a UEMWEB link, the UEMWEB abstract unpacks 416 the client ticket purchase opportunities inside a Web browser on a cellular telephone of the subscriber customer. The UEMWEB may provide options to navigate through and choose to commence an e-commerce transaction.

[00109] As shown in FIG. 5, Amplify 444 may further send a message through the 3P messaging service 520 to a subscriber customer number 442 associated with a client ID 524. The message may include an actionable item, e.g., a link to purchase tickets or view a customized webpage, such that the subscriber customer can send a command 516b using the 3P service 526 to view the customized webpage or purchase tickets or etc. which is sent to Amplify 528 for fulfillment and payment services.

[00110] Note that ADDP 410 may be how the client 404, the customers 408 of the client that become an Amplify subscriber, and Amplify 444 relate to each other through a matrix of conditions, abstracts and ordering of decisions. For example, an input received from a CSC input 406 may contain the third-party API platform identifier and the subscriber customer telephone

number. When the telephone number details are confirmed, they may become a subscriber customer in a data structure of ADDP 410 for future actions.

[00111] When checking the telephone number 418, the area code may be checked to geographically place and validate a location and area code of the telephone number to validate the subscriber customer 420 and verify that the subscriber customer is a customer of Amplify. Moreover, if the telephone number is a land line, it may be purged. However, if the telephone number is a cellular-telephone number, continue.

[00112] Then, whether the telephone number is in a data structure 422 may be checked to validate the subscriber customer 420. If yes, a check whether the customer is currently subscribed or unsubscribed to Amplify 444 for a current client may be performed. If yes 428, conditions are checked and acted upon. However, if no, an opt-in verification message may be sent 424. Note that conditional dependent occurrences 426 may include determining if an opt-in message 424 is needed.

[00113] When opt-in occurs, the customer becomes a subscriber 414. Notably, a subscriber customer 414 may be added to the Amplify data structure. Moreover, the subscriber customer 414 may be flagged to the client 412, and the client 404 thereafter may have access to the subscriber customer 414.

[00114] During content delivery matching, the organization's attributes may be checked, such as a type, industry, events, inventory, etc. Moreover, subscriber customer preferences may be checked via the third-party API and/or a data structure of preferences/history, etc. Then, the relevant event details are pulled through the third-party API for compiling of abstracts. Next, the relevant content to be compiled in a packet is decided 430, such as: which partner's events, which specific events, single event, events list, etc. This information may be curated via third-party API(s). Furthermore, when the subscriber customer verification is checked, a trackable link is compiled 432. Additionally, the message may be sent to the subscriber customer 434. When the subscriber customer interacts with the content, an order may be created and updated 436 accordingly in line with subscriber customer actions and available inventory in tandem with third-party API checks.

[00115] During an Amplify security check and hold 438, the subscriber customer may: navigate to UEMWEB, undertake choosing ticket purchase options, provide financial information (such as credit-card details) in a UEMWEB purchase form, and may activate a command to authorize 440 an e-commerce transaction. After ADDP receives a command, it may trigger the 3P messaging service to send a, e.g., 4-digit PIN code to subscriber customer via MMS/SMS. This PIN code may be input into a purchase form during authorization 440 to enable the subscriber customer to activate a command to commence a, e.g., credit-card charge. This may trigger payment processing 442.

[00116] During payment processing, a secured financial environment generator 500 may: require a client ID 502, a client keyword 504, a client third-party API platform identifier, and a subscriber customer telephone number 422 to interoperate in order to drive encryption (such as UIE encryption), which allows an e-commerce transaction to commence. When these operations are confirmed and compiled, the secured financial environment generator 500 may pass security checks, may provide authorization for the transaction to continue, and may place a packet containing UIE and PIN into a subscriber customer verified link 512.

[00117] Moreover, the secured financial environment generator 510 may generate a hot cookie that may include information specifying the keyword, client, subscriber customer, and protocol, and may place it and activate it in the purchase form, as shown in FIG. 6. The hot cookie is stored locally on the device of the subscriber customer for a defined period of time, as described elsewhere herein. Once the hot cookie is validated, an access link is generated 512 and sent through Amplify 530 to a subscriber customer number 534 associated with a client ID 536 using the 3P messaging service 532 to allow account access 536 to complete a purchase. Validation of the hot cookie confirms the identity of the client and further allows access 536 to complete a purchase.

[00118] Turning to FIGs. 6-7. Once access is granted in FIG. 5 information stored in the hot cookie allows commerce to be activated at 614. Information is input into a 2-factor authentication form (2FA Form) 616 sent via 3P messaging service 618 from subscriber customer number 620 associated with client ID 632. Once the form 616 is completed and transmitted at command 634 via 3P messaging service 636 through Amplify 638, the identity of the subscriber customer

transmitting the form is confirmed through the secure financial environment generator 510. Once the identity is confirmed using the hot cookie 622, the commerce is validated at 624, which may allow financial information (such as credit-card charges) to process and pass authorization and processing.

[00119] This may trigger ADDP to deliver financial information (such as credit-card details) to Vault 1 602 as well as Vault 2 604 based on partnership requirements in certain payment abstract scenarios. Moreover, it may enable credit-card charges to be made and completed resulting in purchase confirmation and fulfillment 606. While this is occurring, a hold may be placed on the credit card (or another financial vehicle) of the subscriber customer.

[00120] Next, ADDP may trigger the 3P messaging service 626 to send a notification (such as an SMS message) to the subscriber customer number 628 associated with client ID 630 with a link to purchased tickets as a result of a purchase confirmation and fulfillment details 606.

[00121] Furthermore, ADDP may manage updating inventory of the client via the third-party API as a result of a purchase confirmation and fulfillment. ADDP may transfer credit-card charge receipts to one or more payees 610, 612, such as the client if they are the merchant of record. Alternatively, the third-party API may push the delivery payment receipt to the client if they are the merchant of record.

[00122] We now describe embodiments of an electronic device, which may perform the communication technique. FIG. 8 presents a block diagram of an example of an electronic device 800, such as one of: electronic devices 110, computer 112, hosting computer 114, optional base station 120 or optional access point 122. This electronic device includes processing subsystem 810, memory subsystem 812, and networking subsystem 814. Processing subsystem 810 includes one or more devices configured to perform computational operations. For example, processing subsystem 810 can include one or more microprocessors, application-specific integrated circuits (ASICs), microcontrollers, programmable-logic devices, one or more GPUs, and/or one or more digital signal processors (DSPs).

[00123] Memory subsystem 812 includes one or more devices for storing data and/or instructions for processing subsystem 810 and networking subsystem 814. For example, memory

subsystem 812 can include dynamic random-access memory (DRAM), static random-access memory (SRAM), a read-only memory (ROM), flash memory, and/or other types of memory. In some embodiments, instructions for processing subsystem 810 in memory subsystem 812 include: one or more program modules or sets of instructions (such as program instructions 822 or operating system 824), which may be executed by processing subsystem 810. For example, a ROM can store programs, utilities or processes to be executed in a non-volatile manner. Further, for example, DRAM can provide volatile data storage and may store instructions related to the operation of electronic device 800. Note that the one or more computer programs may constitute a computer-program mechanism, a computer-readable storage medium, or software. Moreover, instructions in the various modules in memory subsystem 812 may be implemented in: a high-level procedural language, an object-oriented programming language, and/or in an assembly or machine language. Furthermore, the programming language may be compiled or interpreted, e.g., configurable or configured (which may be used interchangeably in this discussion), to be executed by processing subsystem 810. In some embodiments, the one or more computer programs are distributed over a network-coupled computer system so that the one or more computer programs are stored and executed in a distributed manner.

[00124] In addition, memory subsystem 812 can include mechanisms for controlling access to the memory. In some embodiments, memory subsystem 812 includes a memory hierarchy that comprises one or more caches coupled to a memory in electronic device 800. In some of these embodiments, one or more of the caches is located in processing subsystem 810.

[00125] In some embodiments, memory subsystem 812 is coupled to one or more high-capacity mass-storage devices (not shown). For example, memory subsystem 812 can be coupled to a magnetic or optical drive, a solid-state drive, or another type of mass-storage device. In these embodiments, memory subsystem 812 can be used by electronic device 800 as fast-access storage for often-used data, while the mass-storage device is used to store less frequently used data.

[00126] Networking subsystem 814 includes one or more devices configured to couple to and communicate on a wired and/or wireless network (i.e., to perform network operations), including: control logic 816, an interface circuit 818 and a set of antennas 820 (or antenna

elements) in an adaptive array that can be selectively turned on and/or off by control logic 816 to create a variety of optional antenna patterns or 'beam patterns.' (While FIG. 8 includes set of antennas 820, in some embodiments electronic device 800 includes one or more nodes, such as nodes 808, e.g., a pad, which can be coupled to set of antennas 820. Thus, electronic device 800 may or may not include set of antennas 820.) For example, networking subsystem 814 can include a Bluetooth networking system, a cellular networking system (e.g., a 3G/4G/5G network such as UMTS, LTE, etc.), a universal serial bus (USB) networking system, a networking system based on the standards described in IEEE 802.9 (e.g., a Wi-Fi networking system), an Ethernet networking system, and/or another networking system.

[00127] Networking subsystem 814 includes processors, controllers, radios/antennas, sockets/plugs, and/or other devices used for coupling to, communicating on, and handling data and events for each supported networking system. Note that mechanisms used for coupling to, communicating on, and handling data and events on the network for each network system are sometimes collectively referred to as a 'network interface' for the network system. Moreover, in some embodiments a 'network' or a 'connection' between the electronic devices does not yet exist. Therefore, electronic device 800 may use the mechanisms in networking subsystem 814 for performing simple wireless communication between the electronic devices, e.g., transmitting advertising or beacon frames and/or scanning for advertising frames transmitted by other electronic devices.

[00128] Within electronic device 800, processing subsystem 810, memory subsystem 812, and networking subsystem 814 are coupled together using bus 828 that facilitates data transfer between these components. Bus 828 may include an electrical, optical, and/or electro-optical connection that the subsystems can use to communicate commands and data among one another. Although only one bus 828 is shown for clarity, different embodiments can include a different number or configuration of electrical, optical, and/or electro-optical connections among the subsystems.

[00129] In some embodiments, electronic device 800 includes a display subsystem 826 for displaying information on a display, which may include a display driver and the display, such as a

liquid-crystal display, a multi-touch touchscreen, etc. Display subsystem 826 may be controlled by processing subsystem 810 to display information to a user.

[00130] Electronic device 800 can also include a user-input subsystem 830 that allows a user of the electronic device 800 to interact with electronic device 800. For example, user-input subsystem 830 can take a variety of forms, such as: a button, keypad, dial, touch screen, audio input interface, etc.

[00131] Electronic device 800 can be (or can be included in) any electronic device with at least one network interface. For example, electronic device 800 may include: a cellular telephone or a smartphone, a smartwatch, a wearable device, a tablet computer, a laptop computer, a notebook computer, a personal or desktop computer, a netbook computer, a media player device, an electronic book device, a smartwatch, a wearable computing device, a portable computing device, a consumer-electronic device, as well as any other type of electronic computing device having wireless communication capability that can include communication via one or more wireless communication protocols.

[00132] Although specific components are used to describe electronic device 800, in alternative embodiments, different components and/or subsystems may be present in electronic device 800. For example, electronic device 800 may include one or more additional processing subsystems, memory subsystems, networking subsystems, and/or display subsystems. Additionally, one or more of the subsystems may not be present in electronic device 800. Moreover, in some embodiments, electronic device 800 may include one or more additional subsystems that are not shown in FIG. 8. Also, although separate subsystems are shown in FIG. 8, in some embodiments some or all of a given subsystem or component can be integrated into one or more of the other subsystems or component(s) in electronic device 800. For example, in some embodiments program instructions 822 are included in operating system 824 and/or control logic 816 is included in interface circuit 818.

[00133] Moreover, the circuits and components in electronic device 800 may be implemented using any combination of analog and/or digital circuitry, including: bipolar, PMOS and/or NMOS gates or transistors. Furthermore, signals in these embodiments may include digital

signals that have approximately discrete values and/or analog signals that have continuous values. Additionally, components and circuits may be single-ended or differential, and power supplies may be unipolar or bipolar.

[00134] An integrated circuit (which is sometimes referred to as a 'communication circuit') may implement some or all of the functionality of networking subsystem 814. This integrated circuit may include hardware and/or software mechanisms that are used for transmitting wireless signals from electronic device 800 and receiving signals at electronic device 800 from other electronic devices. Aside from the mechanisms herein described, radios are generally known in the art and hence are not described in detail. In general, networking subsystem 814 and/or the integrated circuit can include any number of radios. Note that the radios in multiple-radio embodiments function in a similar way to the described single-radio embodiments.

[00135] In some embodiments, networking subsystem 814 and/or the integrated circuit include a configuration mechanism (such as one or more hardware and/or software mechanisms) that configures the radio(s) to transmit and/or receive on a given communication channel (e.g., a given carrier frequency). For example, in some embodiments, the configuration mechanism can be used to switch the radio from monitoring and/or transmitting on a given communication channel to monitoring and/or transmitting on a different communication channel. (Note that 'monitoring' as used herein comprises receiving signals from other electronic devices and possibly performing one or more processing operations on the received signals).

[00136] In some embodiments, an output of a process for designing the integrated circuit, or a portion of the integrated circuit, which includes one or more of the circuits described herein may be a computer-readable medium such as, for example, a magnetic tape or an optical or magnetic disk. The computer-readable medium may be encoded with data structures or other information describing circuitry that may be physically instantiated as the integrated circuit or the portion of the integrated circuit. Although various formats may be used for such encoding, these data structures are commonly written in: Caltech Intermediate Format (CIF), Calma GDS II Stream Format (GDSII) or Electronic Design Interchange Format (EDIF). Those of skill in the art of integrated circuit design can develop such data structures from schematic diagrams of the type

detailed above and the corresponding descriptions and encode the data structures on the computer-readable medium. Those of skill in the art of integrated circuit fabrication can use such encoded data to fabricate integrated circuits that include one or more of the circuits described herein.

[00137] While some of the operations in the preceding embodiments were implemented in hardware or software, in general the operations in the preceding embodiments can be implemented in a wide variety of configurations and architectures. Therefore, some or all of the operations in the preceding embodiments may be performed in hardware, in software or both. For example, at least some of the operations in the communication technique may be implemented using program instructions 822, operating system 824 (such as a driver for interface circuit 818) or in firmware in interface circuit 818. Alternatively or additionally, at least some of the operations in the communication technique may be implemented in a physical layer, such as hardware in interface circuit 818.

SILENT NETWORK AUTHENTICATION

[00138] FIG. 9 is a drawing illustrating an example of an automated silent network authentication security and access control system 900 in accordance with an embodiment of the present disclosure. The system 900 may assess client device (e.g., electronic device 110-1) credentials and provide access, for the client device, to a security layer (e.g., silent network authentication protocol (SNAP) (e.g., access and security automation layer 1100).

[00139] For example, a client device 110-1 or an automated process may access system 900 to initiate messaging and/or communication channel campaigns. In particular a client dashboard 902 client and/or sub-client administrative panel 904 can gain operational access to message creation engine 906, and/or enable sub-client administrative panel 904 to gain operational access to message creation engine 906, to undertake communications and/or messaging campaigns to sub-client subscriber vault subscriber(s) 908 captured through system subscriber funnels that are stored in sub-client subscriber vault. In general, sub-client assets 912 may be system-warehoused and accessible through client assets aggregator API 910 by way of connection to sub-client asset aggregator 914 and/or system asset compiler 916, which may enable sub-client assets 912 to

surface within either 902 client dashboard and/or sub-client administrative panel 904 for inclusion to communications and/or messaging campaigns compiled within message creation engine 906. Such communications and/or messaging campaigns may be generated as navigable HTML web flows within decision delivery processor 918, and queued to machine learning/AI enabled decision engine (e.g.,, ML/AI cluster 1000a) within Automated Messaging Distribution Array (AMDA) generator 1000 (FIG. 10) via 201 automated/manual message campaign trigger to sub-client subscriber vault 908 subscribers; or, any one or more sub-client subscriber vault 908 subscribers associated with algorithmically defined consumer behavior data, described elsewhere herein and located in sub-client subscriber vault 908. Settings for the automated/manual message campaign trigger 922 can be established in either of client dashboard 902 and/or sub-client administrative panel 904 to manually or automatically compile messages, in either instance with or without sub-client assets 912, to be combined with subscriber vault subscriber(s) 908 (e.g., user data previously stored at silent network authentication protocol layer 924) in preparation for generating an encoded and compiled short link 926 to render security software code processor engine security features via the access and security automation layer 1100 (FIG. 11), for example, and/or other system attributes into the compiled and encoded short link 926 and/or engagement method, delivering short link 926 and/or engagement method to ADDP 410 where each compiled short link 926 and/or engagement method attributes are stored, thereafter enabling system 900 to continue to AMDA system 1000 for message delivery characteristics to be generated, as described elsewhere herein.

AUTOMATED MESSAGING DISTRIBUTION

[00140] FIG. 10 is a drawing illustrating an example of the automated messaging distribution array (AMDA) system 1000, in accordance with an embodiment of the present disclosure. In general, the AMDA system 1000 may utilize a messaging subscription and distribution system (e.g., hub 1000e) that automates the process of sending messages across various channels, to ensure efficient and timely delivery of messages to subscribers. The AMDA system 1000 may utilize algorithms, rules, and and/or ML/AI to manage the timely distribution targeting a particular audience at a particular calculated time and may do so according to a

particular geographic location of a subscriber. The messages may include determined offers and/or opportunities and personalized messages based upon predefined criteria. Such messages may be generated and sent according to text messaging regulations, FCC, TCPA, or other communication regulations associated with contacting consumers.

[00141] The AMDA system 1000 may support a variety of messaging channels including at least SMS/MMS (e.g., text messages), Rich Communication Services (RCS) platforms, and Over-the-Top (OTT) platforms. Integrating such a combination of messaging channels allows for a broad reach across different communication platforms, enhancing the ability to effectively target a subscriber or audience. The AMDA system 1000 may leverage RCS capabilities to deliver high-resolution photos, videos, and/or audio messages, other media and file formats, interactive media, augmented reality, virtual reality and/or internet of things controls. The AMDA system 1000 may also support real-time typing indicators, read receipts, and interactive elements such as buttons, radial dials, dropdowns, shopping carts, and carousels/carousel menus. These features may provide a subscriber with an engaging and interactive user experience compared to conventional SMS or email campaigns. The AMDA system 1000 may also utilize ML/AI technologies to ingest and analyze data, enabling personalized and targeted messaging campaigns as well as automated scheduling determination. This AMDA system 1000 can identify, match, compare, and organize subscriber data into specific tiers based on engagement levels in order to determine appropriate and/or otherwise convenient message delivery. The AMDA system 1000 may generate and use automated just-in-time messaging arrays to determine a convenient time to send messages to subscribers based on subscriber location, activities, and/or preferences. The arrays may ensure that messages are delivered at a time that may increase a likelihood of receiving engagement from the subscriber. The AMDA system 1000 may be enabled to adhere to regulatory blackout periods and other compliance requirements (e.g., regulatory compliance, user permission compliance, user preferences compliances, etc.), which allows the AMDA system 1000 to be used and/or modified for business operating in multiple jurisdictions or in industries with specific regulatory frameworks.

[00142] In AMDA 1000, ML/AI cluster 1000a may ingest message campaign delivery characteristics defined in client dashboard 902 and/or sub-client administrative panel 904, as well as compiled and encoded short link details 926, and systematized campaign attributes captured in ADDP 410 (via decision delivery processor 918, for example) where prior subscriber vault subscriber(s) 908 activities and related subscriber vault subscriber(s) personalized experiences including, but not limited to usage history, asset categories, click-through rates, timing engagement and psychographic use characteristics, etc. (collectively, --subscriber use history--) may be stored and enabled to parse incoming individualized subscriber data with their individualized pre-existing subscriber use history. Such storing and parsing may further enable ML/AI cluster 1000a to identify, match, compare, and organize each subscriber vault subscriber(s) 908 recipient(s) of a specific message campaign being triggered from client dashboard 902 and/or sub-client administrative panel 904 into one of three subscriber vault tiers of AMDA subscriber vault 1000b, as shown by arrow 1002. The process of categorizing subscribers may be iterative, as indicated by the two-sided arrow 1002. The AMDA subscriber vault 1000b may include data from vault 908. The vault tiers may include tier 1 buyers 1000b1, tier 2 link clickers 100b2, and tier 3 bulk senders 1000b3. The tier 1 buyers 1000b1 may be defined as those subscribers who have previously engaged with compiled and encoded short links 926 and/or other engagement methods with system 900, for example which could include a user call to action element and/or a transaction element within the context of an intra-application action like RCS, OTT, etc. and/or as a result of system user engagement attributions that could be received by the system from secondary channel(s) delivering to the subscriber recipient within the outside channel(s)the same or similar opportunity that the user engaged with and/or completed a transaction from, the system may log the outside channel attribution such that the user could be graduated to the higher system tier as a result of the outside channel system attributed user behavior and completed the defined customer journey attributed within compiled and encoded short links 302 and/or other engagement method with any of an ecommerce purchase opportunity, registering within a registration opportunity, completing navigation through a defined navigation journey, etc. and as such, are queued for message delivery characteristics defined outside of tier 2 link-clickers 1000b2and/or 1000b3 tier 3 bulk-send

recipients 1000b2. Tier 2 link-clickers 1000b2 may be defined as subscriber vault subscriber(s) 908 who have previously engaged with compiled and encoded short links 926 and/or other engagement method, but have not completed the intended ecommerce purchase opportunity, registration opportunity, and/or intended navigation journey, etc., and as such, are queued for message delivery characteristics defined outside of tier 1 buyers 1000b1and/or tier 3 bulk-send recipients 1000b3. Tier 3 bulk-send recipients 1000b3 may be defined as users that have not clicked through any of the received compiled and encoded short links 926 sent from one or more message campaigns initiated by client dashboard 902 and/or sub-client administrative panel 904, and as such may be queued for message delivery characteristics defined outside of tier 1 buyers 1000b1 and/or tier 2 link-clickers 1000b2.

[00143] For example, for tier 1 buyers, the delivery characteristics operate through the just-in-time messaging component of the AMDA 1000. In such examples, each message sent may be one of many messages sent and/or constantly being triggered for sending at incongruent, non-linear times secondarily within regulated non-blackout periods within the area codes associated with a particular time zone. Each of the send times for the messages are generally governed according to various time-based factors including the psychographic footprint of each individual recipient related to their preferred receipt times based on prior link click days of the week and/or times of day the recipient(s) engaged, whether the recipient(s) have a differing content propensity on any given day as compared to any other day, whether the recipient(s) engage deeper into a provided UX at a given specific time and/or weekday, which days and times are the recipient(s) more apt to complete a UX journey and/or complete a purchase, etc.

[00144] For Tier 2 link clickers, all of the above Tier 1 assessment applies except that the systems described herein does not have the subscriber recipients purchase propensities as the subscriber has yet to make a purchase or perform a transaction, or undertake the defined navigation journey, and are instead engaging with links and/or navigating UX interfaces.

[00145] For tier 3 bulk-send recipients, the AMDA 1000 does not have any clicked-link feedback data from the recipients of messages, and therefore the systems described herein may discern message sending procedures against (1) the regulatory frameworks and blackout period

restrictions on a geographically area-code defined basis, otherwise using more of (2) an all-at-once, bulk-sending procedure/methodology.

[00146] Upon completion of defining tier 1 buyers 1000b1, tier 2 link-clickers 1000b2, and tier 3 bulk-send recipients 1000b3 within AMDA subscriber vault tiers 1000b, the AMDA system 1000 may designate 1000b1 tier 1 buyers and 1000b2 tier 2 link clickers 1000c to an automated just-in-time messaging array 1000c. The AMDA system 1000 may use subscriber use history characteristics to enable the generation and use of the automated just-in-time messaging array 1000c to determine when to send campaign messages to which subscribers at what time of day in any of various geographic locations in a manner that includes defined characteristics and regulatory blackout periods relative to any given ecommerce purchase, registration opportunity, and/or defined navigation journey, etc. The characteristics, and regulatory blackout periods may be procured and compiled against subscriber(s) use history and varying personalized experiences captured and stored within ML/AI cluster 1000a in an ongoing and continuously sequenced methodology. For example, the continuous sequencing may be performed to determine particular subscriber location, subscriber activities, and subscriber preferences such that each subscriber timely receives messages sent from automated just-in-time messaging array 1000c carrying compiled/encoded short links 926 of which unique variants identified, compiled, and attributed within ML/AI cluster 1000a to such subscriber vault subscriber(s) 908 to enable message campaign recipient(s) subscriber(s) to navigate through the personalized experience(s) the AMDA system1000 has sent through the automated just-in-time messaging array 1000c.

[00147] Correspondingly, tier 3 subscribers 1000b3 that have not engaged with compiled/encoded short links 926 sent through various ongoing message campaigns may be designated by the AMDA system 1000 to automated bulk messaging array 1000d, which possesses similar characteristics as automated just-in-time messaging array 1000c relative to regulatory blackout periods and other defined characteristics, resulting in message campaigns originating from the systems described herein to relevant tier 3 subscriber vault subscriber(s) 1000b3 of one or more specific campaign(s) message(s) being sent at the same time according to predefined time periods and other related system factors defined by ML/AI cluster 1000a.

[00148] The automated bulk messaging array 1000d may provide an option for use with subscribers less engaged in the overall system. For example, if a subscriber has yet to engage in a particular message sent by the system described herein (i.e., a tier 3 subscriber 1000b3, new subscribers of the system 1000, etc.). The array 1000d may be provided to allow for efficient management and distribution of messages to larger groups without having to individually customize the messages/content/campaigns.

[00149] For example, the just-in-time messaging array 1000d may compile a standardized message that can be sent to a group of large and/or small tier 3 recipients, and/or a singular tier 3 recipient that had subscribed to a particular e-commerce retailer, but had never engaged with any of the compiled short link 926 they received from that retailer in the past, to notify the tier 3 group of subscribers of a sale on one of their ecommerce products in an attempt to induce the subscribers to engage with the compiled short link 926 and potentially complete an ecommerce purchase transaction.

[00150] Depending on which tier from vault 1000b3 outputs data, the automated just-in-time messaging array 1000c or the automated bulk messaging array 1000d may provide data to the automated scheduler and distribution hub 1000e. In addition, the ML/AI cluster 1000a may also provide input in decisions associated with the automated messaging scheduler and distribution hub 1000e, as indicated by arrow 1004. Decisions may be iteratively made and/or information may be shared between hub 1000e and ML/AI cluster 1000a as a basis in which to generate and send particular messages to subscribers.

[00151] For example, time-oriented characteristics related to tier 1 buyers 1000b1 and tier 2 link-clickers 1000b2 may be defined based on decisions generated at ML/AI cluster 1000a, which may trigger automated scheduler and distribution hub 1000e to define detailed aspects relating to each individually specific subscriber vault subscriber(s) 908 queued in automated just-in-time messaging array 1000c, such that defined campaign messages are sent by cluster 1000a at specified times on a one-at-a-time and/or many-at-a-time segmentation basis to each individual subscriber/vault subscriber 908, vis a vis, just-in-time, whereafter the automated scheduler and distribution hub 1000e may route system campaign message(s) to various distribution channels

defined by ML/AI cluster 1000a. The distribution channels may include, but are not limited to SMS/MMS (e.g., text message channels), Rich Communication Services (RCS) channels 1000e1, Over-the-Top (OTT) messaging channels 1000e2 (e.g., WhatsApp®, Meta Messenger®, Viber®, etc., and/or social networking channels 1000e3, such as social channels from Meta Platforms Inc., X Corp., Apple Inc., or the like). Subscribers may receive messages on channels 1000e1, 1000e2, and/or 1000e3 based at least in part on which channel (and/or which application) a subscriber engagement originated from. For example, if a tier 2 subscriber engaged with link 926 using WhatsApp®, then the hub 1000e may trigger any follow on messages or follow on content to be distributed to the subscriber through the WhatsApp® application. Other scenarios of messaging are possible and may include distribution of messages based at least in part on subscriber preferences, subscriber permissions, or other user-based engagement characteristics.

[00152] Correspondingly, time-oriented characteristics related to tier 3 automated bulk messaging array 1000b3 may be defined and/or otherwise influenced from decisions generated at ML/AI cluster 1000a, which may trigger automated scheduler and distribution hub 1000e to schedule bulk campaign message sends at times specified by ML/AI cluster 1000a, whereafter automated scheduler and distribution hub 1000e may route campaign message(s) to various distribution channels defined by ML/AI cluster 1000a, which can include SMS/MMS text message channels/RCS channels, and/or OTT messaging channels, as described elsewhere herein.

[00153] Referring again to FIG. 9, the AMDA 1000 may use 3PP service provider API endpoint 920, which truncates system campaign messages to be delivered from client/sub-client program message campaign number 930 through various third party mobile carriers 932 that deliver campaign messages (e.g., C1, C2, C3) to allocated subscriber vault subscriber(s) 908 at subscriber messaging recipient cell numbers 934 in just-in-time campaign message-send sequencing defined by ML/AI cluster 1000a and executed by AMDA subscriber vault 1000b through automated just-in-time messaging array 1000c and/or automated bulk messaging array 1000d, according to the campaign message distribution schedule articulated through ML/AI cluster 1000a. The campaign messages may be thereafter queued into, and carried out accordingly by automated messaging scheduler and distribution hub 1000e (FIG. 10). At cellular phone messaging

apps 936, subscriber vault subscriber(s) 908 that received system messages at subscriber messaging recipient cell numbers 934, the compiled and encoded short links 926 can be activated by subscriber vault subscriber(s) campaign message recipient 938, which triggers opening of a customized UEMWEB loader 940 (and/or third party domain within a web browser) on subscriber vault subscriber(s) 908/campaign message recipient(s) cellular phone, which continues to silent network authentication protocol (SNAP) access and security automation layer 1100.

[00154] When compiled and encoded, short link 926 is activated at message recipient link activation 938 by subscriber vault subscriber(s) 908, the customized UEMWEB loader 940 (and/or third party domain) triggers the SNAP access and security automation layer 1100 to activate an entry software code packet for a security automation layer and instance identifier associated with entry software code packet for security automation layer and instance ID 1100a.

[00155] The operations performed by the systems described herein may utilize ML and/or AI modules, such as the machine learning/AI enabled decision cluster 1000a. The cluster 1000a may include or utilize one or more large language models (LLMs), a recurrent neural network (RNN) model, a transformer model, and/or any other type of ML model capable of analyzing messaging scheduling, user input, cellular data, or the like; memory for storage of data and/or software applications; one or more processors for accessing data and executing the software applications; and/or other components that may facilitate communication over one or more cellular networks (e.g., network 118), Wi-Fi networks (e.g., signals 126), wired networks, or other networks. In some embodiments, one or more of the software applications can be installed locally at the mobile computing device (e.g., device 110-1). In some embodiments, one or more of the software applications can be hosted remotely (e.g., by one or more servers) and can be accessible by the mobile computing devices over one or more of the networks.

[00156] The ML/AI cluster 1000a architecture may include a number of modules or layers that may perform the operations described herein. The modules or layers may include: a data ingestion layer that gathers real-time and batch data such as user interactions (clicks, views, purchases), product information, and user profiles. This layer ensures data is consistently and reliably imported into the system for processing; a data storage layer which acts as the backbone

of the system by utilizing databases, data lakes, or data warehouses to handle large volumes of diverse data used for processing and analysis; a data processing and feature engineering module which, amongst other processes, cleans, transforms, and enhances data so that it is made suitable for use in machine learning models, a data models training layer for creating models, based on collaborative filtering, content-based models, hybrid, or other approaches, that can make accurate and relevant recommendations. For example, data gathered at 938 and 940 can be utilized, on top of data originally ingested, to continually refine and tighten up the models over time; a models serving and deployment layer for managing model versions and integrating models into the system, ensuring they are accessible and performant; a real time recommendation engine that utilizes deployed models to analyze user data and context, interfaces with applications and user interfaces, and undertakes seamless delivery of tailored suggestions. For example, the AMDA (1000e) can incorporate recommendations and/or recommendation information directly into messages and/or the destination behind included links being sent out via multiple messaging and/or social channels (1000e1, 1000e2, 1000e3). These messages and recommendations can then generate new data; an updating of feedback loops layer which collects data and feeds it back into the system to retrain models, thus adapting the system to ever changing user behavior. For example, data gathered at 938 and 940 can be fed back into 1000a; and a security and compliance layer that manages authentication and authorization, ensuring data privacy, security, and regulatory compliance. The feedback loops layer may provide a mechanism for monitoring ML/AI cluster 1000a machine leaning model(s) performance in real time and ensuring ongoing enhancements through iterative updates by integrating five functions including (1) performance monitoring, (2) feedback aggregation, (3) ML/AI cluster 1000a machine learning model re-training and update automation, (4) continuous learning and adaptation, and (5) feedback loop optimization to ensure that the ML/AI cluster 1000a remains adaptable, efficient, and aligned with real-world data and user interaction to drive immediate modules and/or layers improvements s, as well as a security and compliance layer for assessing and providing secure access and/or secure authorization for users accessing content and/or performing actions associated with the content.

ACCESS AND SECURITY AUTOMATION LAYER

[00157] FIG. 11 is a drawing illustrating an example access and security automation layer 1100, in accordance with an embodiment of the present disclosure. The layer 1100 may provide security for accessing content. The layer 1100 may use a SNA-based security automation layer, which assesses client device credentials and provides secure access. The layer 1100 may also utilize encoded and compiled short links (e.g., links 926) with security software code, enhancing the overall security of transmitted and accessed messaging campaigns.

[00158] In general, the security of layer 1100 may be used alone or in conjunction with the security mechanisms described herein. In a non-limiting example, the layer 1100 may provide a multi-stage security mechanism on a webpage, website, micro-website, UEMWEB, or application which integrates existing security functionality together with biometric authentication, utilizing facial identification, fingerprint identification, or other biometric frameworks in conjunction with, or separately from Silent Network Authentication (SNA) (e.g., layer 1100) to provide security for user login (e.g., access) and transaction processes. Upon access attempt, for example, the layer 1100 may prompt a user for biometric verification to leverage the local authentication framework to ensure the requestor is the legitimate owner of the device requesting access. Concurrently, the layer 1100 may use SNA to operate in the background, silently verifying the network credentials of the user device (e.g., phone number, SIM card identifier, etc.) without user interaction.

[00159] For example, the layer 1100 may analyze one or more of a SIM card identifier or related information and may also analyze network usage patterns to confirm the identity of the user of the device requesting access. This dual-layered approach may ensure a seamless, convenient, and secure user experience, significantly reducing the risk of unauthorized access while protecting sensitive data. In a nonlimiting example, a subscriber may receive an SMS marketing message on a mobile device and may select a link within the message to land on a product webpage. The subscriber may select particular product variables and add an item to an online or application-specific shopping cart. The subscriber may move to a checkout area and select an order/purchase control. The shopping cart/application may prompt the user to execute biometrics, such as a face scan, fingerprint scan, etc. The shopping cart/application may perform

the biometric confirmation (e.g., scan a face, scan a fingerprint, etc.) and may perform an SNA authentication process (as described elsewhere herein) in a background process (e.g., substantially simultaneously to the biometric confirmation, subsequent to the biometric confirmation, or prior to the biometric confirmation). If both the biometric confirmation and the SNA authentication produce valid identification checks for the subscriber, then the transaction may execute to purchase the content of the shopping cart.

[00160] In another non-limiting example, a subscriber may receive an SMS marketing message on a mobile device and may select a link within the message to land on a product webpage. The subscriber may select particular product variables and add an item to an online or application-specific shopping cart. The subscriber may move to a checkout area and select an order/purchase control. In the event that the device being used to navigate the shopping cart/application does not include biometric capabilities, the biometric confirmation process can be skipped and the SNA authentication process may instead be substituted as the singular security check. If the SNA authentication produces a valid identification check for the subscriber, then the transaction may execute to purchase the content of the shopping cart.

[00161] The layer 1100 includes security features within the AMDA system 1000. The security features may enhance the security of communications and the security of access control. The layer 1100 represents a SNA-based layer for authenticating devices and users (e.g., subscribers, user devices, bots, companies, etc.) silently and securely, ensuring that access to the system 1000 associated data are both controlled and monitored without compromising user experience or system performance. The layer 1000 includes at least one authentication server for managing authentication requests and processes. The at least one authentication server may store and handles security credentials and policies. Client devices may each have a unique identifier and associated credentials. In some embodiments, the unique identifier is an identifier associated with a SIM card. The layer 1000 may utilize one or more security tokens (e.g., JWT - JSON web tokens) that encapsulate the identity and credentials of the client device. These tokens may be encrypted and can be decrypted by the at least one authentication server. The layer 1000 utilizes encryption algorithms (e.g., Advanced Encryption Standard (AES), Rivest-Shamir-Adleman (RSA), etc.) to

secure the tokens and data transmitted between the client devices and the at least one authentication server. The layer 1000 may include any number of API endpoints providing secure points of communication between the client devices and the authentication server, through which authentication requests and responses may be sent.

[00162] In a non-limiting example, the layer 1000 may receive an access request from the AMDA system 400 from a client device (e.g., a mobile phone device, a table device, etc.). The layer 1000 may generate and send a request to an authentication server to obtain a security token. This request may include the device credentials and unique device identifier (e.g., SIM card identifier). The authentication server may attempt to verify the device credentials and proceed to verify a security token if the credentials are verified. The token may include a device identity (e.g., SIM card, phone number, etc.) and particular session data. The token may also be encrypted using a secure encryption algorithm to deter tampering or forgery. The encrypted token may be transmitted back to the device via a secure API endpoint, for example, and the client device may use the token for subsequent requests to review links, make purchases, shop online, etc. Each time the client device generates and sends a request to the AMDA system, the encrypted token may be included with the request. The authentication server may decrypt the token, validate the token and grant or deny access to the links, purchases, shopping activities, etc. based on the determined validity of the token and/or based on permissions assigned to the token. The SNAP layer 1100 may manage sessions by setting expiration times on the tokens and monitoring session activities. The usage or detection of an expired token may trigger reauthentication to ensure access is securely controlled.

[00163] In some embodiments, the layer 1100a may perform SNA authentication coupled with the calculating, interpreting, and compiling of particular data identifiers, such as cellular numbers, device types, locations, usage patterns, and more, which can be applied to a wide range of real-world use cases that can span across industries like telecommunications, marketing, financial services, healthcare, and logistics, utilizing silent authentication, real-time data processing, and AI-driven decision-making to enhance user experiences and improve operational efficiency while also improving security across multiple domains. Examples of this can include,

but are not limited to, dynamic customer segmentation for personalized messaging where the system compiles data from user cellular numbers and interprets their behavioral and geographical patterns (e.g., frequent roaming users, heavy data users, etc.) to automatically segment subscribers into highly specific categories based on past communication habits, device usage, etc.; and, real-time spam and fraud detection for messaging services to detect fraudulent or spam messages in real-time, protecting users from phishing attempts or malicious content through the system calculating and compiling patterns from previous message metadata, including sender numbers, content analysis, and user interaction patterns while continuously monitoring for anomalies in message delivery (e.g., unusual spikes in message volume from a single number or certain keywords associated with phishing) where the ML/AI cluster 1000a can silently authenticate the source of a message, ensuring that it is coming from a legitimate cellular number and not from a spoofed or fake number, and so on; and, location-based services and geo-fencing for marketing campaigns where a marketing entity uses the system's ML/AI cluster 1000a to send location-based offers to subscriber customers who enter a particular geographical zone and the system silently authenticates the user's cellular number and uses real-time location data to calculate proximity to potential offerings of specific interest to the subscriber based upon having previously compiled and interpreted the customer's past engagement behaviors to determine the best offer to send to their device based on their preferences, and so on; and, silent authentication for seamless user login and verification where a link 926 could use silent network authentication via the ML/AI cluster 1000a to verify user identity without requiring an SMS-based one-time password (OTP) or other more cumbersome validation methods such as email confirmations, etc., where instead the system silently authenticates the user's cellular number by communicating directly with the mobile network, verifying that the SIM card and phone number are associated with the user's registered account and further or prior verifications through system compiled data relative to the user's device type, location, and usage patterns to additionally confirm that the login attempt(s) match historical usage behavior, and so on, whereafter the user is granted access without needing to enter an OTP, making the login process frictionless and secure.

[00164] In operation, the layer 1100a may pass a security software code packet 1100b through security software code API endpoint/webhook 1000c to third party authentication services provider API endpoint 1100d, which enables third party authentication services provider validation layer 1100e to identify subscriber messaging recipient cellular number(s) and other variables including encryption specifics, etc. that enable system truncation to the appropriate third party mobile carrier network to execute a cellular carrier SNAP 1100f to establish a pass or fail status, where if the carrier SNAP responds back with a PASS status 1100g, then 600i the third party authentication services provider validation layer 1100i passes the PASS status 1100g through third party authentication services provider API endpoint 1100d to security software code API endpoint/webhook 1100c, etc. delivering the PASS status 1100g to a security automation layer exit software code packet 1100j and/or 3rd party authorization, which calls third party SSO token API 1100k to acquire a single sign-on token that is embedded into an encryption string created within 600l an encryption generator 1100l that gets passed through automation layer exit software code packet and/or third party authorization exit software code packet for security automation layer and/or third party authorization layer 1100j to be included in links generated by short link encoder/compiler 926, where subscriber vault subscriber(s) campaign message recipient(s) customized UEMWEB loader and/or a third party domain journey is enabled with the specific augmented access and unique navigation attributes made available through the SNAP access and security automation layer 1100. However, However, if cellular carrier SNAP 1100f responds back with a FAIL, then the third party authentication services provider validation layer 1100i may pass the FAIL status through the third party authentication services provider API endpoint 1100d to security software code API endpoint 1100c, which delivers the FAIL status to the exit software code packet for security automation layer and/or third party authorization layer 1100j, where the subscriber vault subscriber(s) campaign message recipient(s) customized UEMWEB loader and/or third party domain journey is not enabled with the specific augmented access and unique navigation attributes made available from SNAP access and security automation layer 301. Next, the flow may continue to the automated security verification hub 1200 (FIG. 12).

AUTOMATED SECURITY VERIFICATION HUB

[00165] FIG. 12 is a drawing illustrating an example of an automated security verification hub 1200, in accordance with an embodiment of the present disclosure. In operation, data and/or messages may be received from the SNAP layer 1100 (FIG. 11) including PASS and/or a FAIL indication/statuses 1100g, 1100h at a SNAP security verification channel selector 1201. The selector 1201 may distribute the PASS/FAIL through one of at least three pathways including a third party security verification services API 1202, a first alternative verification channel 1204, and a second alternative verification channel 1206. If a PASS status is received, the data and/or messages may be provided to a SNAP verification automation layer 1208 within SNAP verification layer 1308 (occurring within an HTML experience). If a FAIL status is received, the data and/or messages may be provided to the layer 1208 using either channel 1204 or channel 1206 to allow for different security screening. For channel 1204, a first alternate verification may occur using external verification system, as shown by alternate destination 1210. Similarly, a second alternate verification may occur using external verification system, as shown by alternate destination 1212. Similar data or output from destinations 1210, 1212 may also be provided to SNAP layer 1208 to continue a cellular data-based authentication process using third party cellular service 1214, third party cellular service 1216, and/or third party cellular service 1218. In addition, or instead, external security authentication can be performed using external security 1220 and/or external security 1222. For example, a security verification process/type can be selected for external security 1220 and/or external security 1222 including one or more, or any combination of system access code security sent using SMS and/or MMS, biometric security, password or PIN code based security, or the like.

[00166] The SNAP verification automation layer 1208 may determine which type of security verification is to be used. For example, a security verification process/type can be selected amongst one or more, or any combination of SNAP security, system access code security sent using SMS and/or MMS, biometric security, password or PIN code based security, or the like, where after determining a security type, the system verification automation layer 1208 may truncate a system pathway into 3PP cellular carrier service 1214, cellular carrier service 1216,

and/or cellular carrier service 1218, and/or to external security 1220 and/or external security 1222, etc. to gain access to system security and/or access gateway 1250, which can distribute data and/or messages to and/or from external access ports 1250a, 1250b and so on, or directly to internal access ports 1300 (FIG. 13) where subscriber vault subscriber(s)/campaign message recipient(s) receiving PASS status 1100g or FAIL status 1100h may pass through system recipient user experience, navigation, and/or purchase journey resulting from an unpacked compiled and encoded short link 926 at carrier/noncarrier access port 1300. In some embodiments, access may be received from external security 1220 at access block 1250a and/or received from external security 1222 at access block 1250b.

SECURITY/ACCESS PROTOCOL SELECTION

[00167] FIG. 13 is a drawing illustrating an example flow diagram representing selection of a first security protocol or a second security protocol, in accordance with an embodiment of the present disclosure. The carrier/noncarrier access port 1300 may receive data, messages, and/or approval/authentication from security and/or access gateway 1250 (FIG. 12). In general, the carrier/noncarrier access port 1300 may direct a navigation journey of subscriber vault subscriber(s) 908/campaign message recipient(s) flagged with a PASS status 1100g through cellular path 1302, which executes SNAP security within navigation pages 1304 for a user journey by user engagement activation command 1306 being triggered. Triggering command 1306 may trigger SNAP verification automation layer 1208 to process a navigation request through a secure SNAP ID verification carrier path security protocol 1310 to interoperate through third party verification services API 1312 (associated with third party authentication services provider API endpoint 1100d in FIG. 11) and 3PP cellular carrier verification 1313 to enable the SNAP verification channel selector 1201 to back-test and confirm a PASS status 1100g to enable access, verification, and/or payment processing block 1314, and/or one-touch e-commerce payment, etc. to subscriber vault subscriber(s) 908 campaign message recipient(s) having received a PASS status 1100g, triggering 904 system and/or third party card vault 1316 to access payment and content to be purchased, for example, allowing subscriber vault subscriber(s) 908/campaign message

recipient(s) having received the PASS status 1100g to complete a user experience, navigation, and/or purchase journey, as indicated by user engagement completed block 1318.

[00168] The carrier/noncarrier access port 1300 may instead direct a navigation journey of subscriber vault subscriber(s) 908/campaign message recipient(s) flagged with a FAIL status 1100h through a second security protocol that is a non-cellular security/access check. For example, subscribers 908 flagged with a FAIL status 1100h may be directed to an external security/access check and/or an internal, non-cellular security path at block 1326. A non-cellular security path includes performing security and/or access assessments without the use of cellular data, and instead utilizes local data on the mobile device and/or Bluetooth and/or Wi-Fi data to perform security and access operations. The block 1326 may pass the FAIL status and any subscriber data to particular navigation/application pages for user journey 1328 resulting from an unpacked compiled and encoded short link 1326, which directs the navigation journey of subscriber vault subscriber(s) 908/campaign message recipient(s) flagged as FAIL status 1100h to request information from the subscriber including user information capture certificate 1330 and thereafter activates user engagement activation command 1332, which triggers a SNAP ID verification non-carrier path 1334 to execute alternative security protocol(s) through security verification hub 1200 (FIG. 12), triggering the formation and delivery of an access code, PIN code, keyword, or the like. For example, the hub 1200 may generate a secure access code using secure access code generator at an external verification system, as shown by alternate destination 1212 and/or alternate destination 1210 and/or other security checkpoint and send a message with such a code to be delivered by SMS, MMS, RCS, OTT, and/or other delivery mode to subscriber vault subscriber(s) 908/campaign message recipient(s) receiving a FAIL status 1100h. The message may request that the subscriber 908 input the provided code in an input field 1336 (or the like), which may trigger access, verification, and/or payment processing block 1338 to retrieve payment credentials from system 900 and/or third party card vault 1340 to enable completion of subscriber vault subscriber(s) 908/campaign message recipient(s) (having a FAIL status 1100h) of a user experience, navigation, and/or purchase journey, as shown by user engagement completed block 1342.

[00169] In some embodiments, the first security protocol using cellular path SNA security of block 1302 may be performed and the second security protocol using non-cellular/online data of block 1326 may also or instead be performed in cases in which the first security protocol fails to allow access or security authorization for a subscriber/user of a mobile/client device. If the subscriber can gain access and/or security authorization through cellular data use in block 1302 (e.g., the first security protocol), then the subscriber may avoid having to utilize the non-cellular (e.g., second security protocol) starting at block 1326. This may provide a benefit (to the subscriber) of faster authentication to allow access, purchases, and/or other action that utilizes security checks and a benefit of allowing the subscriber to avoid additional data messaging and/or data input steps.

[00170] FIG. 14 is a drawing illustrating an example of performing a silent network automated protocol identifier verification process 1400, in accordance with an embodiment of the present disclosure. The process 1400 may begin at carrier/non-carrier access port 1300 and may use a non-carrier path through a user engagement activation command 1332 or may use a carrier path through SNAP verification automation layer 1208.

[00171] For example, when the SNAP access and security automation layer 1100 is activated for carrier path instances, SNAP verification automation layer 1208 may activate SNAP identifier verification 1401b – carrier path to run a confirmation cycle verifying that the PASS status is tied to the applicable verification session instance created at entry software code packet for entry software code packet for security automation layer and instance ID 1100a, where 701b/a unique identifier algorithms 1402 initiate system assigned instance ID verification 1404, and client identifier 1406 confirms that the verification session instance assigned at entry software code packet for security automation layer and instance ID 1100a has been assigned to the appropriate system client, and that the engaged client mobile ID packet 1408 corresponds to the identifying signature attributes assigned by entry software code packet for security automation layer and instance ID 1100a system operations to the user navigating the navigation/application pages for user journey 1304 during the SNAP verification automation layer 1208 processes which can include information such as browser type and version, operating system and version, screen

resolution, time zone, language settings, device model, IP address, etc. Once confirmed, 701b/e access protocol generator algorithms 1410 prompt security protocol for SNAP encryption layer 1412 to formulate the encryption string to facilitate the creation of the SNAP encrypted data packet 1414 containing the SNAP PASS/FAIL status confirmed as attributable to the overall SNAP encrypted data packet 1414, as well as the confirmed system client ID, the confirmed session instance ID, and the confirmed SNAP security protocol, whereafter the SNAP encrypted data packet 1414 is passed to unique identifier algorithms 1402 to notify validation to verification automation layer 1208 for entry software code packet for security automation layer and instance ID 1100a and/or to third party security protocol 1420, a system SDK, a system plugin, and/or a system API endpoint, etc.

[00172] Alternatively, when the SNAP access and security automation layer 1100 is activated for non-carrier path instances, for example, using Wi-Fi and/or OTT communications, the user engagement activation command 1332 may activate SNAP identifier verification – non-carrier path 1401a to run a confirmation cycle verifying that the PASS status is tied to the applicable verification session instance created at entry software code packet for security automation layer and instance ID 1100a, where unique identifier algorithms to initiate system assigned instance ID verification 1450, where a keyword and/or other identifier 1452 confirms the verification session instance assigned to the system client at entry software code packet for security automation layer and instance ID 1100a. The obtained subscriber mobile number 1456 may be compared to a mobile number documented by SNAP access and security automation layer 1100 system operations to verify matching numbers. Upon successful confirmation access protocol generator algorithms 1458 prompt security protocol for cookies/encryption or other security check 1460 to formulate an encryption string to facilitate the creation of the cookie/encryption/other data packet 1462 containing the SNAP PASS status 1100g or FAIL status 1100h confirmed as attributable to the overall data packet 1462, the confirmed keyword/identifier, client identifier, subscriber mobile number, and security protocol. The data packet 1462 may be passed to unique identifier algorithms 1450 to notify validation to security verification hub 1200 and/or to third party security protocol, a system SDK, a system plugin, and/or a system API endpoint 1464.

ABANDONED JOURNEY/ABANDONED CART

[00173] FIG. 15 is a drawing illustrating an example of handling one or more abandoned shopping experiences and/or other abandoned user journeys, in accordance with an embodiment of the present disclosure. The shopping experiences and/or abandoned user journeys may be online or offline. In some embodiments, such experiences or journeys may be performed online in an online application, web browser, app, or other interface. In some embodiments, such experiences or journeys may be performed offline or sandboxed in an offline application, offline web browser, offline app, or other offline interface.

[00174] In general, a user journey may include a series of steps or interactions that a user (e.g., a subscriber) takes while navigating through data, applications, and related user interfaces. In some embodiments, a user journey may be performed in a browser and may include a series of steps or interactions that the user (e.g., subscriber) takes while navigating through a website or web application. In some embodiments, a user journey may be performed in a browser and may include a series of steps or interactions that the user (e.g., subscriber) takes while shopping online. In some embodiments, a user journey may be performed in a browser and may include a series of steps or interactions that the user (e.g., subscriber) takes while generating a wish list online. In some embodiments, a user journey may be performed in a browser and may include a series of steps or interactions that the user (e.g., subscriber) takes while filling out a form, onboarding, or signing up for a service or product. In some embodiments, a user journey may be performed in a browser and may include a series of steps or interactions that the user (e.g., subscriber) takes while performing a search or browsing online. In some embodiments, a user journey may be performed in an app or application and may include a series of steps or interactions that the user (e.g., subscriber) takes while navigating portions of the app or application. In some embodiments, a user journey may be performed in an app or application and may include a series of steps or interactions that the user (e.g., subscriber) takes while navigating a checkout or purchasing process.

[00175] In general, the user journeys described herein represent a map of how users (e.g., subscribers) move from one page, user interface element, or action to another, starting from their

initial entry point to a final goal (e.g., shopping online, generating a wish list, browsing the Internet, making a purchase, signing up for a service, and/or searching for information, just to name a few examples. Each user journey may include an entry point, an exploration navigation, one or more decision points, one or more actions, a completion point, and an exit point. The entry point may be a location within data in which the user first arrives, which could be a search engine, social media link, an app, or a direct link. The exploration navigation may include a map of locations, data steps, or the like in which the user navigates (e.g., through different pages, selections on links, and interactions with various user interface elements. The decision points may include locations in the data in which the user makes decisions based on goals, such as choosing products, filling out forms, generating wish lists, or deciding whether to stay on a website. The actions may include tasks that users complete during the journey such as adding items to a cart, signing up for a newsletter, filling a shopping cart, or downloading a file. The completion point may refer to a step in which the user achieves the goal of the journey such as completing a purchase, receiving a confirmation email, or successfully finding information. An exit point may be a location in the data in which the user abandons a partially completed journey or completes a task associated with the journey.

[00176] In some embodiments, the systems described herein may function to provide access to one or more abandoned shopping carts or other abandoned online interaction on an electronic platform. For example, the components of the Amplify system described herein may enable access, assessment, and management of abandoned carts associated with a user. In particular, the systems may provide one or more links in a delivered message (e.g., SMS, MMS, RCS, OTT, etc.) to allow a subscriber to access one or more abandoned carts from the link/message and to allow completion of transactions from within the message.

[00177] For example, during system orchestration of subscriber vault subscriber(s) 908 campaign message recipient(s) engagement through the customized UEMWEB loader and/or third party domain 940 may trigger links received from system communications and/or messaging campaigns. After selection on any number of links, subscribers may abandon any of the various engagement steps within the noncellular navigation user journey 1328 and/or cellular navigation

journeys 1304, which may trigger the system to commence a series of operations identifying which navigation step in which abandonment has occurred. For example, the system may determine whether the abandonment of a user journey occurred at any of a session abandonment 1502, a browser abandonment 1504, a search abandonment 1506, a form abandonment 1508, an onboarding/signup abandonment 1510, a wish list abandonment 1512, a checkout abandonment 1514, or a cart abandonment 1516. Each identified abandonment type may be recorded at an ML/AI enabled decision cluster (e.g., cluster 1000a).

[00178] The ML/AI enabled decision cluster 1000a may analyze and configure system responses based on a particular abandonment type. For example, cluster 1000a may assess the abandonment type by comparing characteristics of user journeys within a website or an app, user input, user timing of abandonment, etc. and may direct system 916 to obtain assets from client assets aggregator 910 and/or sub-client assets aggregator 914 to compile and handoff gathered assets to message creation engine 906, which automatically generates a follow-on system abandonment message embedded with the characteristics defined by the ML/AI enabled decision cluster 1000a. The cluster 1000a may further include pre-written message content and/or message content that is generated through real time machine learning analysis (e.g., on the fly, at request, etc.) within the machine learning/AI enabled decision cluster 1000a to provide timely, accurate, and targeted content relative to the subscriber vault subscriber(s) 908 campaign message recipient(s) prior engagement characteristics and/or any other determinative subscriber vault subscriber(s) 908 campaign message recipient(s) details previously learned at the ML/AI enabled decision cluster 1000a. Such content may enable message creation engine 906 to automatically compile a new message to be sent to the subscriber vault subscriber(s) 908 campaign message recipient(s), whereupon 302 short link encoder/compiler 926 and/or other engagement method that may generate a new link using characteristics defined in machine learning/AI enabled decision cluster 1000a. The characteristics may be compiled into a final message that may be placed in a queue at automated message scheduler and distribution hub 1000e. The hub 1000e may use the information formulated and compiled by cluster 1000a to determine subscriber vault subscriber(s) campaign message recipient(s) to be selected from subscriber vault 908 for receiving generated

follow-on abandonment messages. When the follow-on abandonment messages are sent by the system at an allocated distribution time queued into automated message scheduler and distribution hub 1000e by the cluster 1000a, the third party service provider API endpoint 920 receives an API call from the system defining which client/sub-client program message campaign number(s) 930 are to be used to send the follow-on abandonment messages through to the relevant third party cellular carriers 1520. The follow-on abandonment messages may be truncated to the appropriate messaging recipient cell number(s) 1522 that undertook a specific type of abandonment at a specific time and/or journey location within the originating navigation/application pages for user journey 1304 or 1328, which may be received in subscriber vault subscriber(s) 908 campaign message recipient(s) cellular phone messaging apps 1524, where the new short link encoder/compiler and/or engagement method compiled link and/or other engagement method is available to subscriber vault subscriber(s) 908 campaign message recipient(s) to activate and engage with the new navigation/application pages associated with a new user journey (associated with journey 1304 or 1328), which may define which specific type of abandonment journey the new short link encoder/compiler compiled link and/or engagement method provides relative to the characteristics defined by the cluster 1000a to place the subscriber vault subscriber(s) 908 campaign message recipient(s) within a newly created 1528 customized UEMWEB loader and/or third party domain property that enables the 908 subscriber vault subscriber(s) campaign message recipient(s) to commence the new navigation/application pages of the new user journey (associated with journey 1304 or 1328) from where the user abandoned the originating journey 1304 or 1328. From the new UEMWEB loader or third party domain property 1528, the process 1500 may return to automated security verification hub 1200 to further authenticate or access content at the new property (e.g., link) 1528.

[00179] FIG. 16 is a flow diagram of an example process 1600 for providing a user access to one or more abandoned carts or abandoned user journeys. The process 1600 is a computer-implemented method for providing a user (e.g., subscriber) access to an abandoned cart or abandoned user journey to enable the user to complete a purchase or journey. The process 1600 may include any combination of the steps described in FIG. 15.

[00180] In some embodiments, a link or actionable item customized to the journey of the user may be provided to enable the user to return to an abandoned journey or cart. When the customized link is selected by an authorized recipient (e.g., user, a subscriber, etc.), a hot cookie on the mobile device belonging to the user can trigger the silent network authentication protocol layer 924 to execute a security check that ties the authorized recipient to a mobile phone number, a client identifier of the marketing entity, and a client entity keyword in order to generate a pass status (e.g., pass status 1100g of FIG. 11) that enables the browser (or application) to open up to the last page in which the subscriber was navigating at a time of abandoning a particular user journey, as described elsewhere herein.

[00181] At block 1602, the process 1600 may include configuring an authorized recipient associated with a telephone number (e.g., client device 110-1), to be subscribed to receive additional content at the telephone number, in response to determining that the authorized recipient has previously provided authentication information. For example, the process 1600 may determine that a user has provided opt in permission or user permissions, in general, to receive follow on communications at the telephone number when the user is determined to be a previously authorized recipient.

[00182] At block 1604, the process 1600 may include activating one or more customized webpages including at least one customized actionable item for performing online actions. The activating may include generation of secure access information for performing the online actions, as described in detail in FIG. 15. The at least one customized actionable item may correspond to prior online actions or intent marker(s) performed by the authorized recipient and associated with an online user journey. For example, the recipient may carry out a user journey including shopping, browsing, form filling, searching, or the like and may abandoned the journey (or cart or other event/executable) associated with steps of the journey. In another example, the at least one customized actionable item may correspond to prior intent markers indicated during the user journey. Example intent markers may include any or all of partial entry of purchase information, partial entry of form information, partial entry of contact information, all or a portion of online browsing history, application browsing paths, keyword or other user input, geolocation of the

mobile computing device during the journey, or other data indicating an intention of an end goal of the authorized recipient with respect to the webpage or user journey. In some embodiments, the process 1600 includes activating one or more customized applications (instead of webpages) where the one or more customized applications include the at least one customized actionable item for performing the online actions.

[00183] At block 1606, the process 1600 may include generating, for the authorized recipient, a third party message associated with the one or more customized webpages or applications, as described in FIGS. 9 and 15. The third party message may include the at least one customized actionable item. In some embodiments, the at least one customized actionable item may include a secure link or actionable item, corresponding to an identity of the authorized recipient, to resume the online user journey at the access point and one or more prompts to complete the online user journey. In some embodiments, selection of the secure link, on a computing device displaying the secure link, may trigger a silent network authentication protocol (e.g., hub 1200 using SNAP verification automation layer 1208) to confirm the identity of the authorized recipient, as described in at least FIG. 12. In some embodiments, the silent network authentication protocol is performed by a third party associated with the generated third party message, and accessed through a mobile device carrier.

[00184] At block 1608, the process 1600 may include causing transmission of the generated third party message to the authorized recipient. The generated third party message may facilitate, for the authorized recipient, completion of the online user journey by providing access to an access point corresponding to the prior online actions or intent marker. For example, if the online user journey includes online shopping, the third party message may include links, actions, or other interactive content that may be selected to return the authorized recipient to resume the online shopping journey. Other examples are of course possible, and as such, the third party message may include links, actions, or other interactive content that may be selected to return to one or more of: an abandoned online cart associated with the prior online actions or intent marker, an abandoned online purchase associated with the prior online actions or intent marker, or an abandoned online wish list associated with the prior online actions or intent marker. In some embodiments, the at

least one customized actionable item may include one or more links, one or more buttons, one or more carousels, one or more interactive content items, or the like.

[00185] In some embodiments, the online user journey may include online browsing associated with at least one of: an abandoned online browsing session associated with the prior online actions or intent marker, an abandoned online session associated with the prior online actions or intent marker, an abandoned online search session purchase associated with the prior online actions or intent marker, and an abandoned online form associated with the prior online actions or intent marker. In such examples, the at least one customized actionable item may include one or more links, one or more buttons, one or more interactive content items, or the like.

[00186] In some embodiments, the generated third party message may include an RCS message including at least one user interface element to select amongst one or more of: an abandoned online cart associated with the prior online actions or intent marker, an abandoned online purchase associated with the prior online actions or intent marker, an abandoned online wish list associated with the prior online actions or intent marker, an abandoned online browsing session associated with the prior online actions or intent marker, an abandoned online session associated with the prior online actions or intent marker, an abandoned online search session purchase associated with the prior online actions or intent marker, and an abandoned online form associated with the prior online actions or intent marker. In some embodiments, the generated third party message may include an RCS message with at least one user interface element to select to complete an online user journey.

RICH COMMUNICATION SERVICE (RCS)

[00187] In some embodiments, the messages, actions, and links generated by the systems described herein (e.g., the AMDA 1000) may be Rich Communication Services (RCS) content/messages. For example, such content/messages may be generated and provided according to the RCS messaging protocol to enhance and modernize an SMS or an MMS communication, for example. In operation, a user may have devices and service providers that support RCS messaging. In some embodiments, the user may enable RCS through a messaging app or mobile device carrier settings. When RCS is enabled and configured, a phone number of the user may be

registered with an RCS server, for example, for use in processes for identifying the user and enabling other features of RCS messaging. Users may generate and/or receive RCS messages that include text, rich media (e.g., images, videos, audio messages), and/or interactive elements (e.g., links, carousels, quick reply user interface elements, actions, or other actionable interactive content etc.), read receipts, and typing indicators. Users may also use such features during group chat and group sharing.

[00188] In some embodiments, when an RCS message is sent to a mobile computing device, the RCS message may utilize an RCS server to handle transmission, format compatibility with recipient devices and/or networks, and delivery receipts/status. The mobile computing device receiving the message may display rich media, text, and/or interactive elements through a messaging app or browser to display content and interactive elements within the message. Recipients can interact with the rich media, etc. such as responding to quick replies, engaging with interactive content, taking an action with respect to the content, and/or viewing media.

[00189] In some embodiments, the RCS server may enable ongoing conversations to be maintained and enhanced with additional features utilizing one or more device manufacturers and mobile carriers associated with devices sending and/or receiving RCS messages. In some embodiments, the systems described herein may generate an SMS or an MMS message as a fallback in the event that RCS messaging is unavailable or unsupported.

[00190] FIG. 17 is a flow diagram of an example process 1700 for generating and sending rich communication service (RCS) messages, in accordance with an embodiment of the present disclosure. The process 1700 is a computer-implemented method for generating and sending secure RCS messages to a user (e.g., subscriber). The RCS messages may include content such as one or more web links, one or more UEMWEB links, one or more actions, text, media, and/or interactive elements. Each recipient of such content may be an authorized recipient, service subscriber, or other subscriber to content.

[00191] At block 1702, the process 1700 may include receiving a request to provide content to at least one authorized recipient. The request may be a direct request from a user device, such as device 110-1 that may request a dynamically generated customized message. In some

embodiments, the request may be received from a third party requesting to send a dynamically generated customized message to an intended message recipient as a subscriber or other authorized recipient associated with the third party. The authorized recipient may be a subscriber that has authorized marketing and/or other promotional type messages, a user that has authorized transactional type messages, reminders, alerts, delay notifications, or the like.

[00192] At block 1704, the process 1700 may include generating a customized message comprising at least one action associated with the content. For example, the automated message distribution array (AMDA) 1000 may utilize machine learning/AI enabled decision cluster 1000a to generate the message according to preferences of a user (subscriber, authorized recipient, etc.), location of the user, time zone of the user, etc. The customized message may include an action to perform a purchase, view content, opt into receiving additional messages or content, or the like. In some embodiments, the at least one action associated with the content includes one or more options to perform a transaction, select a suggested response, return to a prior browsing session, or return to a prior application session. In some embodiments, the customized message may include a secure link to access additional content, may include an action to perform a purchase, view content, opt into receiving additional messages or content, or the like.

[00193] At block 1706, the process 1700 may include causing transmission of the customized message to a mobile computing device associated with the at least one authorized recipient. For example, in response to the received request to provide/receive content, the cluster 1000a may provide the content including the at least one action (and/or link(s)) to a mobile number associated with a mobile computing device of the authorized recipient. This may include providing such a message according to protocols and guidelines associated with the mobile computing device service provider and/or guidelines associated with providing messages to users.

[00194] At block 1708, the process 1700 may include, requesting authorization data corresponding to the at least one authorized recipient, responsive to receiving an indication associated with selecting the at least one action. For example, the user (e.g., authorized recipient) may select upon or otherwise indicate execution of instructions associated with one or more portion of the content provided in the message. For example, the authorized recipient may select

upon or otherwise request execution of instructions associated with the action, which may trigger a security process to authorize that the authorized recipient may be provided access to the content. Responsive to receiving the requested authorization data, at block 1710, the process 1700 includes verifying that the authorization data correlates to an identity of the at least one authorized recipient or an identity of the mobile computing device, as described in detail in various aspects of FIGS. 9, 11, and 12.

[00195] At block 1712, the process 1700 may include determining, based on the identity of the at least one authorized recipient or the identity of the mobile computing device, a classification of the at least one authorized recipient. For example, the ML/AI cluster 1000a may classify (e.g., categorize) authorized recipients. The classifications may include criteria associated with an application, website, or service. In some embodiments, the criteria may be based on user behavior. In some embodiments, the criteria may be based on user input and/or preferences. In some embodiments, the criteria may be based on a level of engagement with particular content.

[00196] At block 1714, the process 1700 may include generating, based on the determined classification a Rich Communication Service (RCS) message comprising the content. Each RCS message may be customized for each authorized recipient with customized content determined to be relevant to the particular authorized recipient. Customized text, rich media (e.g., images, videos, audio messages), and/or interactive elements (e.g., links, carousels, quick reply user interface elements, actions, or other actionable interactive content etc.), read receipts, and/or typing indicators may be included in the customized messages. For example, the systems and methods described herein may generate and transmit RCS messages that may include any combination of customized text and images, rich media (e.g., images, videos, audio messages), and/or interactive elements (e.g., links, carousels, quick reply user interface elements, actions, or other actionable interactive content etc.), read receipts, and/or typing indicators.

[00197] For example, depending on one or more of the criteria, the RCS message may be generated by the automated just-in-time messaging array 1000c or the automated bulk messaging array 1000d. Such messages may include portions of content depending on the classification. In some embodiments, the content includes a carousel of selectable options in a user interface of the

mobile computing device. In such examples the selectable options may include executable content for performing at least one secure transaction, executable content for scheduling an appointment, or executable content for resuming at least one abandoned user journey. In some embodiments, the content may be provided in the user interface and the user interface is within a browser executing on the mobile computing device.

[00198] In some embodiments, the content include send and receive indicators provided in a user interface of the mobile computing device. Such indicators indicate real time typing between an RCS message provider and the mobile computing device or between another computing device and the mobile computing device.

[00199] At block 1716, the process 1700 includes scheduling, using a machine learning model and based on the determined classification, delivery of the RCS message to the mobile computing device. For example, the automated messaging scheduler and distribute hub 1000e may schedule the RCS message (or other message type) based on whether the classification utilized array 1000c or array 1000d. In some embodiments, the hub 1000e may instead, alternatively or also generate an SMS/MMS message, using system 1000e1, an OTT message using system 1000e2, or other social channel using system 1000e3. Such additional or alternative messaging may be generated based on detecting an initial engagement, transaction, or other action occurred on a particular system/network. For example, if an initial engagement with content from an authorized recipient is detected on a specific messaging or social platform, then the system 1000 can generate and schedule the message with platform-specific formatting, content, and/or protocols. The process 1700 may further include delivering the RCS message (or other message type) to the mobile computing device according to the scheduled delivery.

[00200] In one non-limiting example, the classification options described herein may include a first tier that includes authorized recipients that have selected or performed one or more actions or links provided in prior RCS messages provided by the system 1000 and received at the mobile computing device (e.g., device 110-1) and in which such recipients have completed one or more transactions based on the selected or performed one or more actions and/or links in the messages. The classification options may further include a second tier including authorized

recipients that have selected or performed the one or more actions or links provided in the prior RCS messages, but have not used the one or more actions or links to perform a transaction. The classification options may further include a third tier including authorized recipients that have not selected or performed the one or more actions or links provided in the prior RCS messages. In such an example set of classifications, the AMDA subscriber vault 1000b may function with the ML/AI cluster 1000a to tier the authorized recipients into one of the classification options. In some embodiments, being categorized into the first tier classification or the second tier classification may cause the RCS message (or other message type) to be scheduled for automated delivery using a just-in-time messaging array 1000c generated by the ML/AI cluster 1000a. In some embodiments, the third tier classification may cause the RCS message (or other message type) to be scheduled for automated bulk message delivery using an automated bulk messaging array 1000d.

[00201] In some embodiments, the process 1700 may further include determining a sender of the RCS message as a basis in which to verify the sender before scheduling and sending the RCS message. Responsive to failing to authorize the determined sender of the RCS message, the system 1000 may deliver, according to the scheduled delivery, an SMS message indicating a warning about the RCS message. For example, the warning may include a version of the message or a sender of the message and a link or other indication for authorizing the determined sender in order to receive the full RCS message.

[00202] In some embodiments, the process 1700 may further include determining a sender of the RCS message and responsive to receiving authorization for the determined sender of the RCS message, delivering the RCS message to the mobile computing device according to the scheduled delivery.

[00203] FIG. 18 is a flow diagram of an example process 1800 of using a silent network authentication protocol, in accordance with an embodiment of the present disclosure. The process 1800 is a computer-implemented method for providing a user (e.g., subscriber) access to carry out one or more actions or transactions. The process 1800 may be carried out, in general, by the ADDP 410 and the AMDA 1000 in combination with the SNAP access and security automation layer

1100, the automated security verification hub 1200, and the SNAP verification layer 1308, as described in FIGS. 9-14. The access may be in the form of a link or other executable content or element. The access may be provided in a message having content where the content may include the one or more web links, one or more UEMWEB links, one or more actions, text, media, and/or interactive elements. Each recipient of such content may be an authorized recipient, service subscriber, or other subscriber to content.

[00204] At block 1802, the process 1800 may include generating, a customized webpage that includes information about one or more transactions of interest to a subscriber associated with the client device. For example, the customized webpage may be generated by the AMDA 1000, which may utilize machine learning/AI enabled decision cluster 1000a to generate the webpage according to preferences of a user (subscriber, authorized recipient, etc.), location of the user, time zone of the user, etc.

[00205] At block 1804, the process 1800 may include generating, for the subscriber, a message associated with the customized webpage. The message may be for the subscriber, but may be generated for a third party such that the third party may provide the message to the subscriber. For example, if the customized webpage includes one or more selectable elements associated with the third party and the subscriber selects upon (or otherwise interacts with) one or more of the selectable elements (e.g., a hosted field, a link, a form, etc.), then the process 1800 may generate the message and send the message to the third party to allow the third party to await an indication form process 1800 of when and where to send the message. Alternatively, the process 1800 may directly generate and send the message.

[00206] In general, the message may include at least one link or selectable action for performing the one or more transactions of interest on the client device. For example, the AMDA 1000 may generate the message. In some embodiments, the customized message may include a selectable action to perform a purchase, view content, opt into receiving additional messages or content, or the like. In some embodiments, the selectable action may include one or more options to perform a transaction, select a suggested response, return to a prior browsing session, or return

to a prior application session. In some embodiments, the message may include a secure link to access or purchase additional items or content.

[00207] At block 1806, the process 1800 may include causing transmission of the generated message to the client device. For example, the client device is associated with the subscriber based on the telephone number and/or device registration. Thus, when the message is indicated to be sent by a third party and/or permission is given to send the message, the process 1800 may send (or trigger sending from another party) the generated message to the client device.

[00208] At block 1808, the process 1800 may include receiving, from the client device, a request to perform the one or more transactions of interest. For example, the subscriber may use the client device to generate such a request by selecting on the at least one link in the message. Other actions are of course possible depending on the actionable items, selectable content, and/or other functionality available in the message.

[00209] At block 1810, the process 1800 may include causing, based on the received request, initiation of a silent network authentication protocol to authenticate the client device. The silent network authentication protocol may include a number of subprocesses as described in FIGS. 9-14. In one non-limiting example, at block 1812, the process 1800 may include generating a security code packet that includes at least a subscriber network credential and a client device carrier identifier associated with the client device.

[00210] The security code packet may include one or more of: a request to verify the subscriber network credential (e.g., a mobile telephone number associated with a user account corresponding to the subscriber), a request to verify the client device carrier identifier (e.g., a SIM card identifier associated with the client device), and a request to verify a network usage pattern associated with the client device, as described elsewhere herein. In some embodiments, the subscriber network credential may further include user pattern or behaviors including, but not limited to browser type and version, operating system and version, screen resolution, time zone, language settings, device model, IP address, etc.

[00211] In some embodiments, the client device carrier identifier corresponds to a subscriber identity module (SIM) card associated with the client device and in such examples, the

silent network authentication protocol may be carried out using cellular data associated with the client device for at least a portion of the protocol.

[00212] In some embodiments, authenticating the client device using the silent network authentication protocol may include enabling the client device to securely access content at the link and securely carry out the one or more transactions of interest. In such examples, the authentication service provider may be a cellular network carrier.

[00213] At block 1814, the process 1800 may include transmitting, the security code packet to an authentication service provider. For example, the security code packet may be transmitted from a first endpoint (e.g., webhook 1100c) in the automation layer 1100 to a second endpoint at a third party authenticator (e.g., an API provided by the third party authenticator), as described in detail in FIG. 11. For example, transmitting the security code packet to the authentication service provider may include using a first application programming interface corresponding to a first application (e.g., SNAP layer 1100, SNAP layer 1208, etc.) to communicate with a second application programming interface corresponding to a second application (e.g., the third party authenticator, cellular network authenticator, etc.) associated with the authentication service provider. The transmission may be configured to request validation of the client device to access content at the at least one link and to execute purchases associated with the one or more transactions of interest.

[00214] At block 1816, the process 1800 may include receiving, from the authentication service provider, an indication that the subscriber network credential and the client device carrier identifier match existing records associated with a mobile telephone service provider (e.g., cellular service provider) or an indication that the subscriber network credential or the client device carrier identifier fail to match the existing records. For example, a matching process may be performed between layer 1100 and cellular network provider API or other third party authenticator API.

[00215] At block 1818, the process 1800 may include performing the one or more transactions of interest on the client device in response to receiving the indication that the subscriber network credential and the client device carrier identifier match the existing record. In the event that the indication received indicates a failed match, the process 1800 may instead

generate alternative requests, denial requests, etc. For example, in response to receiving the indication that the subscriber network credential or the client device carrier identifier fail to match the existing records, the process 1800 may generate an alternate request to authenticate the client device without the silent network authentication protocol. The alternate request to authenticate the client device may include generating a PIN code associated with the one or more transactions of interest, and triggering the authentication service provider to provide the PIN code to the client device in a generated text message, enabling the client device to securely access content at the link in the text message and securely carry out the one or more transactions of interest. In some embodiments, the alternate request includes the use of non-cellular data associated with the client device. In some embodiments, the alternate request includes the use of Wi-Fi data, wired Internet systems, or other wired or wireless protocol to authenticate the client device.

[00216] In some embodiments, authenticating the client device using the silent network authentication protocol may include obtaining a pre-existing encryption string associated with the client device, the SIM card, and communication with a device carrier network and verifying, based on the obtained pre-existing encryption string, that the client device is the device in which the SIM card was previously activated and in which the device carrier network previously validated.

[00217] The systems described herein may function with appropriately configured user permissions. For example, the alerts, messages, texts, and/or other communications triggered by the systems described herein are generated and sent according to prior user permissions from a user/subscriber.

[00218] While examples of numerical values are provided in the preceding discussion, in other embodiments different numerical values are used. Consequently, the numerical values provided are not intended to be limiting.

[00219] The systems and methods described herein and variations thereof can be embodied and/or implemented at least in part as a machine configured to receive a computer-readable medium storing computer-readable instructions. The instructions may be executed by computer-executable components integrated with the system and one or more portions of the processor on the nasal assemblies described herein and/or computing devices 801. The computer-readable

medium can be stored on any suitable computer-readable media such as RAMs, ROMs, flash memory, EEPROMs, optical devices (e.g., CD or DVD), hard drives, floppy drives, or any suitable device. The computer-executable component may include any suitable dedicated hardware or hardware/firmware combination that can alternatively or additionally execute the instructions.

[00220] A computer program product can be tangibly embodied in an information carrier. The computer program product may also contain instructions that, when executed, perform one or more methods and/or computer-implemented methods described herein. The information carrier may be a computer- or machine-readable medium, such as the memory or other storage associated with the devices and/or processors described herein.

[00221] References in the specification to "one embodiment," "an embodiment," "an illustrative embodiment," "some embodiments," etc., indicate that the embodiment described may include a particular feature, structure, or characteristic, but every embodiment may or may not necessarily include that particular feature, structure, or characteristic. Moreover, such phrases are not necessarily referring to the same embodiment. Further, when a particular feature, structure, or characteristic is described in connection with an embodiment, it is submitted that it is within the knowledge of one skilled in the art to affect such feature, structure, or characteristic in connection with other embodiments whether or not explicitly described.

[00222] As used in the description and claims, the singular form "a", "an" and "the" include both singular and plural references unless the context clearly dictates otherwise. For example, the term "sensor" may include, and is contemplated to include, a plurality of sensors. At times, the claims and disclosure may include terms such as "a plurality," "one or more," or "at least one;" however, the absence of such terms is not intended to mean, and should not be interpreted to mean, that a plurality is not conceived.

[00223] The term "about" or "approximately," when used before a numerical designation or range (e.g., to define a length or pressure), indicates approximations which may vary by (+) or (-) 5%, 1% or 0.1%. All numerical ranges provided herein are inclusive of the stated start and end numbers. The term "substantially" indicates mostly (i.e., greater than 50%) or essentially all of a device, substance, or composition.

[00224] As used herein, the term "comprising" or "comprises" is intended to mean that the devices, systems, and methods include the recited elements, and may additionally include any other elements. "Consisting essentially of" shall mean that the devices, systems, and methods include the recited elements and exclude other elements of essential significance to the combination for the stated purpose. Thus, a system or method consisting essentially of the elements as defined herein would not exclude other materials, features, or steps that do not materially affect the basic and novel characteristic(s) of the claimed disclosure. "Consisting of" shall mean that the devices, systems, and methods include the recited elements and exclude anything more than a trivial or inconsequential element or step. Embodiments defined by each of these transitional terms are within the scope of this disclosure.

[00225] The examples and illustrations included herein show, by way of illustration and not of limitation, specific embodiments in which the subject matter may be practiced. Other embodiments may be utilized and derived therefrom, such that structural and logical substitutions and changes may be made without departing from the scope of this disclosure. Such embodiments of the disclosed subject matter may be referred to herein individually or collectively by the term "invention" merely for convenience and without intending to voluntarily limit the scope of this application to any single invention or inventive concept, if more than one is in fact disclosed. Thus, although specific embodiments have been illustrated and described herein, any arrangement calculated to achieve the same purpose may be substituted for the specific embodiments shown. This disclosure is intended to cover any and all adaptations or variations of various embodiments. Combinations of the above embodiments, and other embodiments not specifically described herein, will be apparent to those of skill in the art upon reviewing the above description.

WHAT IS CLAIMED IS:

1. A computer-implemented method comprising:

receiving a request to provide content to at least one authorized recipient;

generating a customized message comprising at least one action associated with the content;

causing transmission of the customized message to a mobile computing device associated with the at least one authorized recipient;

responsive to receiving an indication associated with selecting the at least one action, requesting authorization data corresponding to the at least one authorized recipient;

responsive to receiving the requested authorization data:

verifying that the authorization data correlates to an identity of the at least one authorized recipient or an identity of the mobile computing device;

determining, based on the identity of the at least one authorized recipient or the identity of the mobile computing device, a classification of the at least one authorized recipient; and

generating a Rich Communication Service (RCS) message comprising the content; and

scheduling, using a machine learning model and based on the determined classification, delivery of the RCS message to the mobile computing device.

2. The computer-implemented method of claim 1, further comprising: delivering the RCS message to the mobile computing device according to the scheduled delivery.

3. The computer-implemented method of claim 1, wherein the content comprises a carousel of selectable options in a user interface of the mobile computing device, the selectable options including performing at least one secure transaction, scheduling an appointment, or resuming at least one abandoned user journey.

4. The computer-implemented method of claim 3, wherein the content is provided in the user interface and the user interface is within a browser executing on the mobile computing device.

5. The computer-implemented method of claim 1, wherein the content comprises send and receive indicators provided in a user interface of the mobile computing device that indicate real time typing between an RCS message provider and the mobile computing device or between another computing device and the mobile computing device.

6. The computer-implemented method of claim 1, further comprising:

determining a sender of the RCS message;

responsive to failing to authorize the determined sender of the RCS message, delivering, according to the scheduled delivery, an SMS message indicating a warning about the RCS message.

7. The computer-implemented method of claim 1, wherein the at least one action associated with the content comprises one or more options to:

perform a transaction, select a suggested response, return to a prior browsing session, or return to a prior application session.

8. An automated messaging subscription and distribution system, the system comprising:

a processor; and

memory configured to store program instructions, wherein, when executed by the processor, the program instructions cause the processor to perform operations comprising:

receiving a request to provide content to at least one service subscriber;

generating a customized message comprising at least one action associated with the content;

causing transmission of the customized message to a mobile computing device associated with the at least one service subscriber;

responsive to receiving an indication associated with selecting the at least one action, requesting subscription data corresponding to the at least one service subscriber;

responsive to receiving the requested subscription data:

verifying that the subscription data correlates to an identity of the at least one service subscriber or an identity of the mobile computing device;

determining, based on the identity of the at least one service subscriber or

the identity of the mobile computing device, a classification of the at least one subscriber; and

generating, based on the determined classification, a Rich Communication Service (RCS) message comprising the content; and

scheduling, using a machine learning model and based on the determined classification, delivery of the RCS message to the mobile computing device.

9. The system of claim 8, wherein the content comprises a carousel of selectable options in a user interface of the mobile computing device, the selectable options including performing at least one secure transaction, scheduling an appointment, or resuming at least one abandoned user journey.

10. The system of claim 9, wherein the content is provided in the user interface and the user interface is within a browser executing on the mobile computing device.

11. The system of claim 8, wherein the content comprises send and receive indicators provided in a user interface of the mobile computing device that indicate real time typing between an RCS message provider and the mobile computing device or between another computing device and the mobile computing device.

12. The system of claim 8, wherein the operations further comprise:

determining a sender of the RCS message;

responsive to failing to authorize the determined sender of the RCS message, delivering, according to the scheduled delivery, an SMS message indicating a warning about the RCS message.

13. The system of claim 8, wherein the at least one action associated with the content comprises one or more options to:

perform a transaction, select a suggested response, return to a prior browsing session, or return to a prior application session.

14. A non-transitory computer-readable storage medium for use in conjunction with a computer, the computer-readable storage medium storing program instructions that, when executed by the computer, cause the computer to carry out one or more operations comprising:

receive a request to provide content to at least one authorized recipient or subscriber;

generate a customized message comprising at least one link associated with the content;

cause transmission of the customized message to a mobile computing device associated with the at least one authorized recipient or subscriber;

responsive to receiving an indication associated with selecting the at least one link, request subscription data corresponding to the at least one authorized recipient or subscriber;

responsive to receiving the requested subscription data:

verify that the subscription data correlates to an identity of the at least one authorized recipient or subscriber or an identity of the mobile computing device;

determine, based on the identity of the at least one authorized recipient or subscriber or the identity of the mobile computing device, a classification of the at least one authorized recipient or subscriber; and

generating a Rich Communication Service (RCS) message comprising the content; and

scheduling, using a machine learning model and based on the determined classification, delivery of the RCS message to the mobile computing device.

15. The non-transitory computer-readable storage medium of claim 14, wherein the operations further comprise: delivering the RCS message to the mobile computing device according to the scheduled delivery.

16. The non-transitory computer-readable storage medium of claim 14, wherein the content comprises a carousel of selectable options in a user interface of the mobile computing device, the selectable options including performing at least one secure transaction, scheduling an appointment, or resuming at least one abandoned user journey.

17. The non-transitory computer-readable storage medium of claim 16, wherein the content is provided in the user interface and the user interface is within a browser executing on the mobile computing device.

18. The non-transitory computer-readable storage medium of claim 14, wherein the content comprises send and receive indicators provided in a user interface of the mobile computing

device that indicate real time typing between an RCS message provider and the mobile computing device or between another computing device and the mobile computing device.

19. The non-transitory computer-readable storage medium of claim 14, wherein the operations further comprise:

determining a sender of the RCS message;

responsive to failing to authorize the determined sender of the RCS message, delivering, according to the scheduled delivery, an SMS message indicating a warning about the RCS message.

20. The non-transitory computer-readable storage medium of claim 14, wherein the at least one link associated with the content comprises one or more options to:

perform a transaction, select a suggested response, return to a prior browsing session, or return to a prior application session.

ABSTRACT

Systems and methods are described for receiving a request to provide content to at least one authorized recipient; generating a customized message comprising at least one action associated with the content; causing transmission of the customized message to a mobile computing device associated with the at least one authorized recipient, requesting authorization data corresponding to the at least one authorized recipient; responsive to receiving the requested authorization data: verifying that the authorization data correlates to an identity of the at least one authorized recipient or an identity of the mobile computing device; determining a classification of the at least one authorized recipient; and generating a Rich Communication Service (RCS) message comprising the content; and scheduling, using a machine learning model and based on the determined classification, delivery of the RCS message to the mobile computing device.

PTO/AIA/14 (01-22)
Approved for use through 05/31/2024. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
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	0053-700.500
	Application Number	
Title of Invention	AUTOMATED SILENT NETWORK AUTHENTICATION PROTOCOL SECURITY, VERIFICATION, AND ACCESS CONTROL FOR CELLULAR HANDHELD DEVICES	

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 Remove

Legal Name

Prefix	Given Name	Middle Name	Family Name	Suffix
	Sacha		Spindler	

Residence Information (Select One) ○ US Residency ◉ Non US Residency ○ Active US Military Service

City	Prague 8	Country of Residence	CZ

Mailing Address of Inventor:

Address 1	204 West Spear Street, Suite 3982		
Address 2			
City	Carson City	**State/Province**	NV
Postal Code	89703	**Country**	US

Inventor 2 Remove

Legal Name

Prefix	Given Name	Middle Name	Family Name	Suffix
	Aidan		Wright	

Residence Information (Select One) ◉ US Residency ○ Non US Residency ○ Active US Military Service

City	Tigard	State/Province	OR	Country of Residence	US

Mailing Address of Inventor:

Address 1	204 West Spear Street, Suite 3982		
Address 2			
City	Carson City	**State/Province**	NV
Postal Code	89703	**Country**	US

All Inventors Must Be Listed - Additional Inventor Information blocks may be generated within this form by selecting the **Add** button. Add

Correspondence Information:

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	0053-700.500
	Application Number	
Title of Invention	AUTOMATED SILENT NETWORK AUTHENTICATION PROTOCOL SECURITY, VERIFICATION, AND ACCESS CONTROL FOR CELLULAR HANDHELD DEVICES	

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	105822		
Email Address	paralegal@aurorapatents.com	Add Email	Remove Email

Application Information:

Title of the Invention	AUTOMATED SILENT NETWORK AUTHENTICATION PROTOCOL SECURITY, VERIFICATION, AND ACCESS CONTROL FOR CELLULAR HANDHELD DEVICES		
Attorney Docket Number	0053-700.500	**Small Entity Status Claimed**	☒
Application Type	Nonprovisional		
Subject Matter	Utility		
Total Number of Drawing Sheets (if any)	18	**Suggested Figure for Publication (if any)**	

Filing By Reference:

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

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

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

Publication Information:

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

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

Representative Information:

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

Please Select One:	◉ Customer Number	○ US Patent Practitioner	○ Limited Recognition (37 CFR 11.9)
Customer Number	105822		

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	0053-700.500
	Application Number	
Title of Invention	AUTOMATED SILENT NETWORK AUTHENTICATION PROTOCOL SECURITY, VERIFICATION, AND ACCESS CONTROL FOR CELLULAR HANDHELD DEVICES	

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 in part of	18483670	2023-10-10

Prior Application Status	Patented				Remove
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)	Patent Number	Issue Date (YYYY-MM-DD)
18483670	Continuation of	18193163	2023-03-30	11876924	2024-01-16

Prior Application Status	Patented				Remove
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)	Patent Number	Issue Date (YYYY-MM-DD)
18193163	Continuation of	17279188	2021-03-24	11765262	2023-09-19

Prior Application Status	Pending		Remove
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
17279188	a 371 of international	PCTUS1952847	2019-09-25
Prior Application Status	Expired		Remove
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
PCTUS1952847	Claims benefit of provisional	62737315	2018-09-27

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

Foreign Priority Information:

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

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	0053-700.500
	Application Number	
Title of Invention	AUTOMATED SILENT NETWORK AUTHENTICATION PROTOCOL SECURITY, VERIFICATION, AND ACCESS CONTROL FOR CELLULAR HANDHELD DEVICES	

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. Add

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

☐ This application (1) claims priority to or the benefit of an application filed before March 16, 2013 and (2) also contains, or contained at any time, a claim to a claimed invention that has an effective filing date on or after March 16, 2013.
NOTE: By providing this statement under 37 CFR 1.55 or 1.78, this application, with a filing date on or after March 16, 2013, will be examined under the first inventor to file provisions of the AIA.

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	0053-700.500
	Application Number	
Title of Invention	AUTOMATED SILENT NETWORK AUTHENTICATION PROTOCOL SECURITY, VERIFICATION, AND ACCESS CONTROL FOR CELLULAR HANDHELD DEVICES	

Authorization or Opt-Out of Authorization to Permit Access:

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

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

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

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

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

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

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

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

☐ A. Applicant **DOES NOT** authorize the USPTO to permit a participating foreign IP office access to the instant application-as-filed. If this box is checked, the USPTO will not be providing a participating foreign IP office with any documents and information identified in subsection 1A above.

☐ B. Applicant **DOES NOT** authorize the USPTO to transmit to the EPO any search results from the instant patent application. If this box is checked, the USPTO will not be providing the EPO with search results from the instant application.

NOTE: Once the application has published or is otherwise publicly available, the USPTO may provide access to the application in accordance with 37 CFR 1.14.

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

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	0053-700.500
	Application Number	
Title of Invention	AUTOMATED SILENT NETWORK AUTHENTICATION PROTOCOL SECURITY, VERIFICATION, AND ACCESS CONTROL FOR CELLULAR HANDHELD DEVICES	

Applicant Information:

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

Applicant 1 Remove

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

Clear

- (●) Assignee
- ( ) Legal Representative under 35 U.S.C. 117
- ( ) Joint Inventor
- ( ) Person to whom the inventor is obligated to assign.
- ( ) Person who shows sufficient proprietary interest

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

Name of the Deceased or Legally Incapacitated Inventor:

If the Applicant is an Organization check here. [X]

Organization Name	IQX CORP.		
Mailing Address Information For Applicant:			
Address 1	204 West Spear Street, Suite 3982		
Address 2			
City	Carson City	**State/Province**	NV
Country	US	Postal Code	89703
Phone Number		Fax Number	
Email Address			

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

Assignee Information including Non-Applicant Assignee Information:

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

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	0053-700.500
	Application Number	
Title of Invention	AUTOMATED SILENT NETWORK AUTHENTICATION PROTOCOL SECURITY, VERIFICATION, AND ACCESS CONTROL FOR CELLULAR HANDHELD DEVICES	

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.

Remove

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

Prefix	**Given Name**	Middle Name	**Family Name**	Suffix

Mailing Address Information For Assignee including Non-Applicant Assignee:

Address 1			
Address 2			
City		**State/Province**	
Country		Postal Code	
Phone Number		Fax Number	
Email Address			

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

Signature:

Remove

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

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

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

Signature	/Kristen J. Hansen/			Date (YYYY-MM-DD)	2024-09-25
First Name	Kristen	Last Name	Hansen	Registration Number	63,526

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

PTO/AIA/14 (01-22)
Approved for use through 05/31/2024. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
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	0053-700.500
	Application Number	
Title of Invention	AUTOMATED SILENT NETWORK AUTHENTICATION PROTOCOL SECURITY, VERIFICATION, AND ACCESS CONTROL FOR CELLULAR HANDHELD DEVICES	

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

Privacy Act Statement

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

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

1 The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether the Freedom of Information Act requires disclosure of these records.

2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.

3 A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.

4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).

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

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.

UNITED STATES
PATENT AND TRADEMARK OFFICE

P.O. Box 1450
Alexandria, VA 22313 - 1450
www.uspto.gov

ELECTRONIC ACKNOWLEDGEMENT RECEIPT

APPLICATION #	RECEIPT DATE / TIME	ATTORNEY DOCKET #
18/896,197	**09/25/2024 03:58:58 PM Z ET**	**0053-700.500**

Title of Invention

AUTOMATED SILENT NETWORK AUTHENTICATION PROTOCOL SECURITY, VERIFICATION, AND ACCESS CONTROL FOR CELLULAR HANDHELD DEVICES

Application Information

APPLICATION TYPE	Utility - Nonprovisional Application under 35 USC 111(a)	PATENT #	-
CONFIRMATION #	2568	FILED BY	Joanna Moore
PATENT CENTER #	67318236	FILING DATE	-
CUSTOMER #	105822	FIRST NAMED INVENTOR	Sacha Spindler
CORRESPONDENCE ADDRESS	-	AUTHORIZED BY	Kristen Hansen

Documents

TOTAL DOCUMENTS: 8

DOCUMENT	PAGES	DESCRIPTION	SIZE (KB)
0053-700.500_ADS.pdf	9	Application Data Sheet	2225 KB
0053-700.500_Track One Request.pdf	2	Track One Request	117 KB
0053-700.500_Utility Application Transmittal.pdf	2	Transmittal of New Application	391 KB
0053-700.500_Specification-APP.TEXT.docx	76	Application body structured text document	74 KB

Warning: Bookmarks were found and have been removed. All artifacts (SmartArt, Drawings, Charts, etc) have been replaced with images.

0053-700.500_Signed Declarations.pdf	2	Oath or Declaration filed	450 KB

0053-700.500_Fee Transmittal.pdf	2	Fee Worksheet (SB06)	331 KB
0053-700.500_Figures.pdf	18	Drawings-only black and white line drawings	1928 KB
0053-700.500_Specification.pdf	76	Auxiliary PDF of Application	457 KB

Digest

DOCUMENT	MESSAGE DIGEST(SHA-512)
0053-700.500_ADS.pdf	E5C7AFECA4F32825E8D288E61B350A6AC5EA7DA4A82F82B7671D5907ABDDB1D8F647BDE556B64C15C5E5253B5CB8403638939475E54FD220F47B934032B6A2F4
0053-700.500_Track One Request.pdf	896AA98E843A409CF9CDDF27B3BDDF18B817434F4AE40AAE064383D8366FEAA68C3C2B984C8F62FA3478CD72FC96636EE5D04B3AC4A5243C86529D2518FD637C
0053-700.500_Utility Application Transmittal.pdf	8E135D4BE8739DA0159450063F88D528EA7405018CC4EAC579597A3789596DFE688ED046995776E261B58FDF993806E7B3534576D10D295B93DD6CAB098D4ED1
0053-700.500_Specification-APP.TEXT.docx	85B6F3DC068AF699A6736A57BD5A471914BBC873D5C34A1D97D21D4F07114A1FAE968230CD5B4D4DCF3CCC4FADBE841D523F1A2FC5DA208EBE8883F86C11BE7D
0053-700.500_Signed Declarations.pdf	9555103F3982B20B97287321CE4AFB0E44B2602B825B480F6A78720372D723DA324312ACE9A7F5D6C7D60CB0EFFD476923A1B0301C7EAD67765B6D3892D4FC46
0053-700.500_Fee Transmittal.pdf	2CA5C0090ED80533CEF436C46BA6D06F7DBAD171689214460529663BD0493D312D5A5C135193C7F59622222615DFA835862901DF23EB1931267489C029FE2CF2
0053-700.500_Figures.pdf	4F339E88CBE0D5A2E881A7F4E0A2D5FFC90CD192FC2916B5B9EF03DE5B47C4CCECB203832ECF2B40429D337E95C8FD45B1B6B57C637E4F1DFC7E7BC31AC0289E
0053-700.500_Specification.pdf	B9DC144142EBF07077CEDE7871ADCC9676863C62CAB5EA920ED82731EF0A4A4CBC713DDD3F5A70F843CE63EB93686A9903C7B11693F0A642305FC5C0E2F821CA

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

New Applications Under 35 U.S.C. 111

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

Receipt will establish the filing date of the application

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

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

New International Application Filed with the USPTO as a Receiving Office

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

PTO/AIA/15 (10-17)
Approved for use through 05/31/2024. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995 no persons are required to respond to a collection of information unless it displays a valid OMB control number.

UTILITY PATENT APPLICATION TRANSMITTAL

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

Attorney Docket No.	0053-700.500
First Named Inventor	Sacha Spindler
Title	AUTOMATED SILENT NETWORK AUTHENTICATION PROTOCOL SECURITY, VER
Priority Mail Express® Label No.	

APPLICATION ELEMENTS

See MPEP chapter 600 concerning utility patent application contents.

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

1. [✓] **Fee Transmittal Form** (PTO/SB/17 or equivalent)
2. [✓] **Applicant asserts small entity status.** See 37 CFR 1.27
3. [ ] **Applicant certifies micro entity status.** See 37 CFR 1.29. Applicant must attach form PTO/SB/15A or B or equivalent.
4. [✓] **Specification** [*Total Pages* 76] Both the claims and abstract must start on a new page. *(See MPEP § 608.01(a) for information on the preferred arrangement)*
5. [✓] **Drawing(s)** (35 U.S.C. 113) [*Total Sheets* 18]
6. **Inventor's Oath or Declaration** [*Total Pages* 2] *(including substitute statements under 37 CFR 1.64 and assignments serving as an oath or declaration under 37 CFR 1.63(e))*
   a. [✓] Newly executed (original or copy)
   b. [ ] A copy from a prior application (37 CFR 1.63(d))
7. [✓] **Application Data Sheet** ** See note below.* See 37 CFR 1.76 (PTO/AIA/14 or equivalent)
8. **CD-ROM or CD-R** in duplicate, large table, or Computer Program (*Appendix*)
   [ ] Landscape Table on CD
9. **Nucleotide and/or Amino Acid Sequence Submission** (*if applicable, items a. – c. are required*)
   a. [ ] Computer Readable Form (CRF)
   b. [ ] Specification Sequence Listing on:
      i. [ ] CD-ROM or CD-R (2 copies); or
      ii. [ ] Paper
   c. [ ] Statements verifying identity of above copies

ACCOMPANYING APPLICATION PAPERS

10. [ ] **Assignment Papers** (cover sheet & document(s))
    Name of Assignee _____
11. [ ] **37 CFR 3.73(c) Statement** (*when there is an assignee*) [ ] **Power of Attorney**
12. [ ] **English Translation Document** (*if applicable*)
13. [ ] **Information Disclosure Statement** (PTO/SB/08 or PTO-1449)
    [ ] Copies of citations attached
14. [ ] **Preliminary Amendment**
15. [ ] **Return Receipt Postcard** (*MPEP § 503*) (*Should be specifically itemized*)
16. [ ] **Certified Copy of Priority Document(s)** (*if foreign priority is claimed*)
17. [ ] **Nonpublication Request** Under 35 U.S.C. 122(b)(2)(B)(i). Applicant must attach form PTO/SB/35 or equivalent.
18. [✓] **Other:** Certification and Request for Prioritized Examination Under 37 CFR 1.102(e)

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

19. CORRESPONDENCE ADDRESS

[X] The address associated with Customer Number: 105822 **OR** [ ] Correspondence address below

Name					
Address					
City		State		Zip Code	
Country		Telephone		Email	

Signature	/Kristen J. Hansen/	Date	2024-09-25
Name (Print/Type)	Kristen J. Hansen	Registration No. (Attorney/Agent)	63,526

A Federal agency may not conduct or sponsor, and a person is not required to respond to, nor shall a person be subject to a penalty for failure to comply with an information collection subject to the requirements of the Paperwork Reduction Act of 1995, unless the information collection has a currently valid OMB Control Number. The OMB Control Number for this information collection is 0651-0032. Public burden for this form is estimated to average 12 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the information collection. Send comments regarding this burden estimate or any other aspect of this information collection, including suggestions for reducing this burden to the Chief Administrative Officer, United States Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450 or email InformationCollection@uspto.gov. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **If filing this completed form by mail, 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.

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. The United States Patent and Trademark Office (USPTO) collects the information in this record under authority of 35 U.S.C. 2. The USPTO's system of records is used to manage all applicant and owner information including name, citizenship, residence, post office address, and other information with respect to inventors and their legal representatives pertaining to the applicant's/owner's activities in connection with the invention for which a patent is sought or has been granted. The applicable Privacy Act System of Records Notice for the information collected in this form is COMMERCE/PAT-TM-7 Patent Application Files, available in the Federal Register at 78 FR 19243 (March 29, 2013). https://www.govinfo.gov/content/pkg/FR-2013-03-29/pdf/2013-07341.pdf

Routine uses of the information in this record may include disclosure to: 1) law enforcement, in the event that the system of records indicates a violation or potential violation of law; 2) a Federal, state, local, or international agency, in response to its request; 3) a contractor of the USPTO having need for the information in order to perform a contract; 4) the Department of Justice for determination of whether the Freedom of Information Act (FOIA) requires disclosure of the record; 5) a Member of Congress submitting a request involving an individual to whom the record pertains, when the individual has requested the Member's assistance with respect to the subject matter of the record; 6) a court, magistrate, or administrative tribunal, in the course of presenting evidence, including disclosures to opposing counsel in the course of settlement negotiations; 7) the Administrator, General Services Administration (GSA), or their designee, during an inspection of records conducted by GSA under authority of 44 U.S.C. 2904 and 2906, in accordance with the GSA regulations and any other relevant (i.e., GSA or Commerce) directive, where such disclosure shall not be used to make determinations about individuals; 8) 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)); 9) the Office of Personnel Management (OPM) for personnel research purposes; and 9) the Office of Management and Budget (OMB) for legislative coordination and clearance.

If you do not furnish the information requested on this form, the USPTO may not be able to process and/or examine your submission, which may result in termination of proceedings, abandonment of the application, and/or expiration of the patent.

Additional Uses

Additional USPTO uses of the information in this record may include disclosure to: 1) the International Bureau of the World Intellectual Property Organization, if the record is related to an international application filed under the Patent Cooperation Treaty; 2) the public i) after publication of the application pursuant to 35 U.S.C. 122(b), ii) after issuance of a patent pursuant to 35 U.S.C. 151, iii) 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, or iv) without publication of the application or patent under the specific circumstances provided for by 37 CFR 1.14(a)(1)(v)-(vii); and/or 3) the National Archives and Records Administration, for inspection of records.

PTO/SB/17 (12-22)
Approved for use through 05/31/2024. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
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

FEE TRANSMITTAL

Complete if known	
Application Number	Filed herewith
Filing Date	Filed herewith
First Named Inventor	Sacha Spindler
Examiner Name	Not yet assigned
Art Unit	Not yet assigned
Practitioner Docket No.	0053-700.500

■ Applicant asserts small entity status. See 37 CFR 1.27.

☐ Applicant certifies micro entity status. See 37 CFR 1.29. Form PTO/SB/15A or B or equivalent must either be enclosed or have been submitted previously.

TOTAL AMOUNT OF PAYMENT ($) 2400

METHOD OF PAYMENT (check all that apply)

☐ Check ■ Credit Card ☐ Money Order ☐ None ☐ Other (please identify): _____

■ Deposit Account Deposit Account Number: 600827 Deposit Account Name: Aurora Consutling LLC

For the above-identified deposit account, the Director is hereby authorized to (check all that apply):

☐ Charge fee(s) indicated below ☐ Charge fee(s) indicated below, **except for the filing fee**

■ Charge any additional fee(s) or underpayment of fee(s) under 37 CFR 1.16 and 1.17 ■ Credit any overpayment of fee(s)

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.

FEE CALCULATION

1. BASIC FILING, SEARCH, AND EXAMINATION FEES (U = undiscounted fee; S = small entity fee; M = micro entity fee)

	FILING FEES			SEARCH FEES			EXAMINATION FEES			
Application Type	**U ($)**	**S ($)**	**M ($)**	**U ($)**	**S ($)**	**M ($)**	**U ($)**	**S ($)**	**M ($)**	**Fees Paid ($)**
Utility	320	128*	64	700	280	140	800	320	160	664
Design	220	88	44	160	64	32	640	256	128	
Plant	220	88	44	440	176	88	660	264	132	
Reissue	320	128	64	700	280	140	2,320	928	464	
Provisional	300	120	60	0	0	0	0	0	0	

* The $128 small entity filing fee for a utility application is further reduced to $64 for a small entity applicant who files the application via Patent Center or EFS-Web.

2. EXCESS CLAIM FEES

Fee Description	**Undiscounted Fee ($)**	**Small Entity Fee ($)**	**Micro Entity Fee ($)**
Each claim over 20 (including Reissues)	100	40	20
Each independent claim over 3 (including Reissues)	480	192	96
Multiple dependent claims	860	344	172

Total Claims _____ -20 or HP = **Extra Claims** _____ x **Fee ($)** _____ = **Fee Paid ($)** _____

HP = highest number of total claims paid for, if greater than 20.

Indep. Claims _____ -3 or HP = **Extra Claims** _____ x **Fee ($)** _____ = **Fee Paid ($)** _____

HP = highest number of independent claims paid for, if greater than 3.

Multiple Dependent Claims **Fee ($)** _____ **Fee Paid ($)** _____

3. APPLICATION SIZE FEE

If the specification and drawings exceed 100 sheets of paper (excluding electronically filed sequence or computer listings under 37 CFR 1.52(e)), the application size fee due is $420 ($168 for small entity) ($84 for micro entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).

Total Sheets _____ - 100 = **Extra Sheets** _____ / 50 = **Number of each additional 50 or fraction thereof** _____ (round **up** to a whole number) x **Fee ($)** _____ = **Fee Paid ($)** _____

4. OTHER FEE(S) **Fees Paid ($)**

Non-English specification, $140 fee ($56 for small entity) ($28 for micro entity) _____

Non-electronic filing fee under 37 CFR 1.16(t) for a utility application, $400 fee ($200 small or micro entity) _____

Other (e.g., late filing surcharge): 1.17(c) and 1.17(i)(1) 1736

SUBMITTED BY

Signature	/Kristen J. Hansen/	Registration No. (Attorney/Agent) 63,526	Telephone (952) 215-4131
Name (Print/Type)	Kristen J. Hansen		Date 2024-09-25

A Federal agency may not conduct or sponsor, and a person is not required to respond to, nor shall a person be subject to a penalty for failure to comply with an information collection subject to the requirements of the Paperwork Reduction Act of 1995, unless the information collection has a currently valid OMB Control Number. The OMB Control Number for this information collection is 0651-0032. Public burden for this form is estimated to average 30 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the information collection. Send comments regarding this burden estimate or any other aspect of this information collection, including suggestions for reducing this burden to the Chief Administrative Officer, United States Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450 or email InformationCollection@uspto.gov. **DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS.** If filing this completed form by mail, 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.

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. The United States Patent and Trademark Office (USPTO) collects the information in this record under authority of 35 U.S.C. 2. The USPTO's system of records is used to manage all applicant and owner information including name, citizenship, residence, post office address, and other information with respect to inventors and their legal representatives pertaining to the applicant's/owner's activities in connection with the invention for which a patent is sought or has been granted. The applicable Privacy Act System of Records Notice for the information collected in this form is COMMERCE/PAT-TM-7 Patent Application Files, available in the Federal Register at 78 FR 19243 (March 29, 2013). https://www.govinfo.gov/content/pkg/FR-2013-03-29/pdf/2013-07341.pdf

Routine uses of the information in this record may include disclosure to: 1) law enforcement, in the event that the system of records indicates a violation or potential violation of law; 2) a Federal, state, local, or international agency, in response to its request; 3) a contractor of the USPTO having need for the information in order to perform a contract; 4) the Department of Justice for determination of whether the Freedom of Information Act (FOIA) requires disclosure of the record; 5) a Member of Congress submitting a request involving an individual to whom the record pertains, when the individual has requested the Member's assistance with respect to the subject matter of the record; 6) a court, magistrate, or administrative tribunal, in the course of presenting evidence, including disclosures to opposing counsel in the course of settlement negotiations; 7) the Administrator, General Services Administration (GSA), or their designee, during an inspection of records conducted by GSA under authority of 44 U.S.C. 2904 and 2906, in accordance with the GSA regulations and any other relevant (i.e., GSA or Commerce) directive, where such disclosure shall not be used to make determinations about individuals; 8) 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)); 9) the Office of Personnel Management (OPM) for personnel research purposes; and 9) the Office of Management and Budget (OMB) for legislative coordination and clearance.

If you do not furnish the information requested on this form, the USPTO may not be able to process and/or examine your submission, which may result in termination of proceedings, abandonment of the application, and/or expiration of the patent.

Additional Uses

Additional USPTO uses of the information in this record may include disclosure to: 1) the International Bureau of the World Intellectual Property Organization, if the record is related to an international application filed under the Patent Cooperation Treaty; 2) the public i) after publication of the application pursuant to 35 U.S.C. 122(b), ii) after issuance of a patent pursuant to 35 U.S.C. 151, iii) 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, or iv) without publication of the application or patent under the specific circumstances provided for by 37 CFR 1.14(a)(1)(v)-(vii); and/or 3) the National Archives and Records Administration, for inspection of records.

DocCode - SCORE

Placeholder Sheet for Supplemental Content

Application Number: 18896197 Document Date: 09/25/2024

The presence of this form indicates that the following document type was received in electronic format on the date identified above. This document is stored separately from the typical case contents which are stored in image format.

Since this was an electronic submission, there is no physical artifact folder, no artifact folder is recorded and no paper documents or physical media exist.

- Drawing

At the time of document entry (noted above):

- USPTO employees may access this supplemental content via Docket Application Viewer (DAV) or Supplemental Content Viewer (SCV).
- External customers may access this supplemental content via Patent Center.