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APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
18/095,238	01/10/2023	Yoseph KOREN	09708-P0001B

136531
The Roy Gross Law Firm, LLC
101 Merritt 7
Suite 300
Norwalk, CT 06851

CONFIRMATION NO. 2028

POWER OF ATTORNEY NOTICE



OC000000080756827

Date Mailed: 11/19/2024

NOTICE REGARDING CHANGE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 11/11/2024.

- The Power of Attorney to you in this application has been revoked by the applicant.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

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

/s/torres/



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APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
18/095,238	01/10/2023	Yoseph KOREN	09708-P0001B

CONFIRMATION NO. 2028

POA ACCEPTANCE LETTER



OC000000080756866

49443
Pearl Cohen Zedek Latzer Baratz LLP
7 Times Square
19th Floor
New York, NY 10036

Date Mailed: 11/19/2024

NOTICE OF ACCEPTANCE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 11/11/2024.

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.

/s/torres/

TRANSMITTAL FOR POWER OF ATTORNEY TO ONE OR MORE REGISTERED PRACTITIONERS

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

Application Number	18/095,238
Filing Date	January 10, 2023
First Named Inventor	Yoseph KOREN
Title	SYSTEM AND METHOD FOR DYNAMIC MANAGEMENT OF PRIVATE DATA
Art Unit	2434
Examiner Name	Amare F. TABOR
Attorney Docket Number	P-566702-US2

SIGNATURE of Applicant or Patent Practitioner

Signature	/Caleb Pollack/	Date	7 November 2024
Name	Caleb Pollack	Registration Number	37,912
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.

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

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

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 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:

49443

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:

49443

OR

☒ Firm or Individual Name	Pearl Cohen Zedek Latzer Baratz LLP				
Address	7 Times Square, 19th Floor				
City	New York	State	NY	ZIP	10036
Country	USA				
Telephone	(646) 878-0800	Email	USPTO@PearlCohen.com		

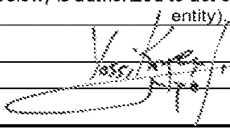
I am the Applicant (if the Applicant is a juristic entity, list the Applicant name in the box):

QPrivacy USA LLC

- ☐ Inventor or Joint Inventor (title not required below)
- ☐ Legal Representative of a Deceased or Legally Incapacitated Inventor (title not required below)
- ☒ Assignee or Person to Whom the Inventor is Under an Obligation to Assign (provide signer's title if applicant is a juristic entity)
- ☐ Person Who Otherwise Shows Sufficient Proprietary Interest (e.g., a petition under 37 CFR 1.46(b)(2) was granted in the application or is concurrently being filed with this document) (provide signer's title if applicant is a juristic entity)

SIGNATURE of Applicant for Patent

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

Signature		Date	November 5, 2024
Name	Yossi Koren		
Title	Manager		

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.

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Page 1 of 2
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ELECTRONIC ACKNOWLEDGEMENT RECEIPT

APPLICATION #
18/095,238

RECEIPT DATE / TIME
11/11/2024 02:07:27 AM Z ET

ATTORNEY DOCKET #
09708-P0001B

Title of Invention

SYSTEM AND METHOD FOR DYNAMIC MANAGEMENT OF PRIVATE DATA

Application Information

APPLICATION TYPE Utility - Nonprovisional Application
under 35 USC 111(a)

PATENT # 11816249

CONFIRMATION # 2028

FILED BY Einav Ofek Cohen

PATENT CENTER # 67907934

FILING DATE 01/10/2023

CUSTOMER # 136531

FIRST NAMED
INVENTOR Yoseph KOREN

CORRESPONDENCE
ADDRESS -

AUTHORIZED BY Caleb Pollack

Documents

TOTAL DOCUMENTS: 1

DOCUMENT	PAGES	DESCRIPTION	SIZE (KB)
P-566702-US2-U-REVPOA-07NOV24.pdf	2	Power of Attorney	164 KB

Digest

DOCUMENT	MESSAGE DIGEST(SHA-512)
P-566702-US2-U-REVPOA-07NOV24.pdf	ECFE32DCFA33E12D38DD4BBD81F7549EA0912DE59F928950 59FE5459CB191CBDB32DF725ECBCC8C6B4C77FBA58D5E83 AE21FDC4AB0F747362AE220108C56F17D

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.



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18/095,238	01/10/2023	Yoseph KOREN	P-566702-US2

CONFIRMATION NO. 2028

POA ACCEPTANCE LETTER



OC000000079952357

136531
The Roy Gross Law Firm, LLC
101 Merritt 7
Suite 300
Norwalk, CT 06851

Date Mailed: 10/30/2024

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/s/torres/



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CONFIRMATION NO. 2028

POWER OF ATTORNEY NOTICE



OC000000079952333

49443
Pearl Cohen Zedek Latzer Baratz LLP
7 Times Square
19th Floor
New York, NY 10036

Date Mailed: 10/30/2024

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/s/torres/

STATEMENT UNDER 37 CFR 3.73(c)

Applicant/Patent Owner: QPrivacy USA LLC

Application No./Patent No.: 11,816,249

Filed/Issue Date: 11/14/2023

Titled: SYSTEM AND METHOD FOR DYNAMIC MANAGEMENT OF PRIVATE DATA

QPrivacy USA LLC, a limited liability company

(Name of Assignee)

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

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

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

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

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

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

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

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

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

1. From: KOREN, YOSEPH; and WASSERMAN, YEHONATAN To: PRIVACY RATING LTD.

The document was recorded in the United States Patent and Trademark Office at
Reel 062351, Frame 0194, or for which a copy thereof is attached.

2. From: PRIVACY RATING LTD. To: QPrivacy USA LLC

The document was recorded in the United States Patent and Trademark Office at
Reel 068433, Frame 0604, or for which a copy thereof is attached.

[Page 1 of 2]

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

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

STATEMENT UNDER 37 CFR 3.73(c)

3. From: _____ To: _____

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

4. From: _____ To: _____

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

5. From: _____ To: _____

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

6. From: _____ To: _____

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

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

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

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

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

/Roy D. Gross/

Signature

Roy D. Gross

Printed or Typed Name

October 24, 2024

Date

63,524

Title or Registration Number

Privacy Act Statement

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

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

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

POWER OF ATTORNEY BY APPLICANT

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

Application Number	Filing Date
Not Yet Known	Herewith

(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:
- 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.)

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- ☒ The address associated with the above-mentioned Customer Number
- OR
- ☐ The address associated with Customer Number:
- OR

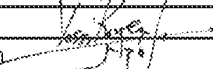
Firm or Individual Name					
Address					
City		State		Zip	
Country					
Telephone		Email			

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

- ☐ Inventor or Joint Inventor (title not required below)
- ☐ Legal Representative of a Deceased or Legally Incapacitated Inventor (title not required below)
- ☒ Assignee or Person to Whom the Inventor is Under an Obligation to Assign (provide signer's title if applicant is a juristic entity)
- ☐ Person Who Otherwise Shows Sufficient Proprietary Interest (e.g., a petition under 37 CFR 1.46(b)(2) was granted in the application or is concurrently being filed with this document) (provide signer's title if applicant is a juristic entity)

SIGNATURE of Applicant for Patent

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

Signature		Date (Optional)	August 28, 2024
Name	Yossi Koren		
Title	Manager of QPrivacy USA LLC		

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.

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ELECTRONIC ACKNOWLEDGEMENT RECEIPT

APPLICATION #
18/095,238

RECEIPT DATE / TIME
10/24/2024 12:19:02 PM Z ET

ATTORNEY DOCKET #
P-566702-US2

Title of Invention

SYSTEM AND METHOD FOR DYNAMIC MANAGEMENT OF PRIVATE DATA

Application Information

APPLICATION TYPE	Utility - Nonprovisional Application under 35 USC 111(a)	PATENT #	11816249
CONFIRMATION #	2028	FILED BY	Melissa Alexander
PATENT CENTER #	67702719	FILING DATE	01/10/2023
CUSTOMER #	49443	FIRST NAMED INVENTOR	Yoseph KOREN
CORRESPONDENCE ADDRESS	-	AUTHORIZED BY	Roy Gross

Documents

TOTAL DOCUMENTS: 2

DOCUMENT	PAGES	DESCRIPTION	SIZE (KB)
09708-P0001B-US POA SIGNED-24-OCT-2024.pdf	1	Power of Attorney	238 KB
09708-P0001B-373c- statement.pdf	3	Assignee showing of ownership per 37 CFR 3.73	121 KB

Digest

DOCUMENT	MESSAGE DIGEST(SHA-512)
09708-P0001B-US POA SIGNED-24-OCT-2024.pdf	3B094805F5F667B60075CC5318B6D09AD538443BF838F5E415 644B386B1258CE9970A41DEB0FD765435932E8648516B783D AC7BBAC8813A702A8F38C0C16026B
09708-P0001B-373c-	EA28BD03765898D42534084384B65E2B03EAA53D339E0E5C6

statement.pdf

05514763466E0FFC9D82615805EF418447C374855DE695817B
407BFE3AB5E92335234255728A3F3

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

New Applications Under 35 U.S.C. 111

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

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New International Application Filed with the USPTO as a Receiving Office

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UNITED STATES PATENT AND TRADEMARK OFFICE

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www.uspto.gov

APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
18/095,238	01/10/2023	Yoseph KOREN	P-566702-US2

49443
Pearl Cohen Zedek Latzer Baratz LLP
7 Times Square
19th Floor
New York, NY 10036

CONFIRMATION NO. 2028 IMPROPER CPOA LETTER



OC000000077768108

Date Mailed: 09/12/2024

NOTICE REGARDING POWER OF ATTORNEY

This is in response to the power of attorney filed 08/28/2024. The power of attorney in this application is not accepted for the reason(s) listed below:

The power of attorney filed 08/28/2024 has not been accepted because the power of attorney must be signed by the applicant for patent. See 37 CFR 1.32(b)(4).

- The person or entity attempting the change to power of attorney is not the applicant of record in the application. Any request to change the applicant once the applicant has been specified must include (1) an application data sheet (ADS) specifying the new applicant in the Applicant Information section, and (2) a statement under 37 CFR 3.73(c) (USPTO Form PTO/AIA/96 or an equivalent) to show chain of title to the new applicant. The ADS must contain markings to show the information that is being changed, with underlining for insertions and strike-through or brackets for text removed. See 37 CFR 1.76(c)(2).

Because the request to change or update the applicant cannot be accepted, the power of attorney is not properly signed by the applicant and cannot be accepted. The change to applicant must be acceptable before the new applicant can appoint power of attorney.

/zabrah/

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

136531
The Roy Gross Law Firm, LLC
101 Merritt 7
Suite 300
Norwalk, CT 06851
UNITED STATES



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
18/095,238	01/10/2023	Yoseph KOREN	P-566702-US2

CONFIRMATION NO. 2028

IMPROPER CFR REQUEST



OC000000077768180

49443

Pearl Cohen Zedek Latzer Baratz LLP
7 Times Square
19th Floor
New York, NY 10036

Date Mailed: 09/12/2024

RESPONSE TO REQUEST FOR CORRECTED FILING RECEIPT

Power of Attorney, Claims, Fees, System Limitations, and Miscellaneous

In response to your request for a corrected Filing Receipt, the Office is unable to comply with your request because:

- Any request to correct or update the name of the applicant must include an application data sheet (ADS) in compliance with 37 CFR 1.76 specifying the correct or updated name of the applicant in the applicant information section. Any request to change the applicant after an original applicant has been specified under 37 CFR 1.46(b) must include a new ADS in compliance with 37 CFR 1.76 specifying the applicant in the applicant information section and comply with 37 CFR 3.71 and 3.73. See 37 CFR 1.46(c).

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.

/zabaha/

ASSIGNMENT AGREEMENT

This ASSIGNMENT AGREEMENT (“**Assignment Agreement**”) is made as of August 28, 2024 (the “**Effective Date**”) by and between: (1) **Privacy Rating Ltd**, a company limited by shares organized under the laws of Israel, company registration number 515765287 (the “**Assignor**”); and (2) **QPrivacy USA LLC**, a limited liability company registered in the State of Texas, USA (the “**Assignee**” and together with the Assignor, the “**Parties**”).

WHEREAS, the Parties have executed and delivered that certain Patent Sale Agreement dated as of the Effective Date (the “**Patent Sale Agreement**”); and

WHEREAS, pursuant to Section 1.6 of the Patent Sale Agreement, the Assignor has agreed, as a condition to the consummation of the transactions evidenced by the Agreement, to execute and deliver this Assignment Agreement to the Assignee.

NOW, THEREFORE, in consideration of the consummation of the transactions evidenced by the Patent Sale Agreement, the promises set forth in this Assignment Agreement and for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, the Parties hereby agree as follows:

1. Assignment of Patents. The Assignor hereby grants, transfers, assigns, sells, conveys and relinquishes exclusively to the Assignee, its successors and assigns forever, on an exclusive basis, the entire title, right, interest, ownership and all subsidiary rights in and to the patents and patent applications (and any continuations thereof after the Effective Date) listed on Exhibit A hereto (the “**Patents**”), and to all of the rights and obligations relating thereto, including, but not limited to, the following, all in connection with the Patents:

- (a) the right to sue and recover for, and the right to profits or damages due or accrued arising out of or in connection with, any and all past, present or future infringements of the Patents;
- (b) the right to file patent applications and secure patents in the Assignee’s own name and to secure renewals, divisionals, continuations (in whole or in part), substitutions, reissues, reexaminations and extensions of such patent applications and/or patents in the United States of America or any other country; and
- (c) the right to determine, in the Assignee’s sole discretion, whether or not any patent applications or patents, as applicable, shall be filed, preserved, maintained or registered.

2. Power of Attorney. The Assignor does hereby constitute and appoint each of the directors and officers of the Assignee, its successors and assigns, as the Assignor’s true and lawful attorney, with full power of substitution for the Assignor, and in its name, place and stead or otherwise, but on behalf of and for the benefit of the Assignee, its successors and assigns, to take all actions and execute all documents on behalf of the Assignor necessary to effect the assignment set forth in Section 1 hereof, and from time to time to institute and prosecute in the Assignor’s name or otherwise, but at the direction and expense and for the benefit of the

Assignee and its successors and assigns, any and all proceedings at law, in equity or otherwise, which the Assignee, its successors or assigns may deem proper in order to collect, assert or enforce any claim, right or title of any kind in and to the Patents and to defend and compromise any and all actions, suits and proceedings in respect of any of said Patents and to do any and all such acts and things in relation thereto as the Assignee, its successors or assigns shall deem advisable, the Assignor hereby declaring that the appointment hereby made and the powers hereby granted are coupled with an interest and are and shall be irrevocable by the Assignor in any manner or for any reason.

3. Further Assurances. Upon the request of the Assignee or in case for any reason the Power of Attorney set forth in Section 2 hereof is insufficient to effect the assignment set forth in Section 1 hereof or effect any other purpose set forth in Section 2 hereof, the Assignor agrees for itself and its successors, representatives and assigns, without further compensation, to perform such lawful acts and to sign such further applications, assignments, statements and other lawful documents as the Assignee may reasonably request to effectuate fully the assignment contained in Section 1 hereof and the purposes set forth in Section 2 hereof.

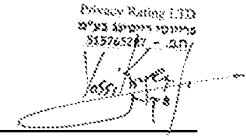
4. Representations and Warranties. The Assignor represents and warrants to the Assignee that: (i) the Assignor owns the Patents free and clear of all liens and encumbrances; (ii) the Assignor has the power and authority to execute this Assignment Agreement; (iii) the Assignor has not entered into any agreement that conflicts with the terms of this Assignment Agreement; (iv) to the Assignor's knowledge, there are no pending or threatened claims by any third party relating to the Patents and/or the use, registration, or ownership of the Patents; and (v) all applicable registration fees for the Patents are paid in full.

5. General. This Assignment Agreement is binding upon and inures to the benefit of the Parties and their respective successors and assigns. This Assignment Agreement and the Patent Sale Agreement set forth the entire agreement between the Parties and supersedes any and all prior or contemporaneous, written or oral agreements with respect to the subject matter hereof. This Assignment Agreement may be amended only in writing executed by each of the Parties. This Assignment Agreement will be governed by the laws of the State of Israel, without regard to its conflict of laws principals.

[Remainder of Page Intentionally Left Blank]

IN WITNESS WHEREOF, the Parties, by their duly authorized representatives, have caused this Assignment Agreement to be executed as of the Effective Date.

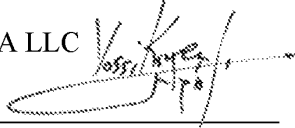
Privacy Rating Ltd.

By: 

Name: Yossi Koren

Title: Co-founder and CEO

QPrivacy USA LLC

By: 

Name: Yossi Koren

Title: Manager

EXHIBIT A

List of Patents

U.S. Patent No. 11,106,824; System and method for dynamic management of private data; Issued on August 31, 2021

U.S. Patent No. 11,816,249; System and method for dynamic management of private data; Issued on November 14, 2023

U.S. Patent No. 12,013,971; System and method for dynamic management of private data; Issued on June 18, 2024

U.S. Patent Application No. 18/745,488; System and method for dynamic management of private data; Filed on June 17, 2024

PCT Application No. WO2018189736A1; System and method for dynamic management of private data; Filed on March 28, 2018

Israel Patent No. IL251683; System and method for dynamic management of private data; Issued on November 30, 2019



UNITED STATES
PATENT AND TRADEMARK OFFICE

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

ELECTRONIC ACKNOWLEDGEMENT RECEIPT

APPLICATION #
18/095,238

RECEIPT DATE / TIME
08/28/2024 09:49:17 PM Z ET

ATTORNEY DOCKET #
P-566702-US2

Title of Invention

SYSTEM AND METHOD FOR DYNAMIC MANAGEMENT OF PRIVATE DATA

Application Information

APPLICATION TYPE	Utility - Nonprovisional Application under 35 USC 111(a)	PATENT #	11816249
CONFIRMATION #	2028	FILED BY	Roy Gross
PATENT CENTER #	66968675	FILING DATE	01/10/2023
CUSTOMER #	49443	FIRST NAMED INVENTOR	Yoseph KOREN
CORRESPONDENCE ADDRESS	-	AUTHORIZED BY	-

Documents

TOTAL DOCUMENTS: 3

DOCUMENT	PAGES	DESCRIPTION	SIZE (KB)
09708-P0001B-373c- statement.pdf	3	Assignee showing of ownership per 37 CFR 3.73	120 KB
09708-P0001B-US POA SIGNED.pdf	1	Power of Attorney	194 KB
09708-Assignment Agreement Final- SIGNED.pdf	4	Assignee showing of ownership per 37 CFR 3.73	385 KB

Digest

DOCUMENT	MESSAGE DIGEST(SHA-512)
09708-P0001B-373c-	0FE310B80EB2F303A79F81FC03E5D3F8ACCA310C619857B61

statement.pdf	6F28F1443883FD1A35FB51761FA6CB8E8425A39B7EB49520A 18F9F103E25F6FAFCCB1F36A584665
09708-P0001B-US POA SIGNED.pdf	175FC7DB5A57394E98CA61C904ED73EE5712B46C97608F419 A5808897F4A6DAD573F3704BFCD84C5ED66FFB1514B0E2C7 2A920C415B16FB0BCDCD8CC18465248
09708-Assignment Agreement Final-SIGNED.pdf	F83A13414BD65C8B26ECF810FEA40FE1054E4F853501850F1 9C4F39A813F2CB7850564BEFF6DE27031A9BA03408EE9219D 29112FCF8421ABCA9D8E91E7272FF9

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.

Doc Code: PA..

Document Description: Power of Attorney

PTO/AIA/82B (07-13)

Approved for use through 11/30/2014. OMB 0651-0051

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
Not Yet Known	Herewith

(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:

136531

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:

OR

Firm or Individual Name				
Address				
City		State		Zip
Country				
Telephone		Email		

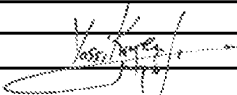
I am the Applicant (if the Applicant is a juristic entity, list the Applicant name in the box):

QPrivacy USA LLC

- ☐ Inventor or Joint Inventor (title not required below)
- ☐ Legal Representative of a Deceased or Legally Incapacitated Inventor (title not required below)
- ☒ Assignee or Person to Whom the Inventor is Under an Obligation to Assign (provide signer's title if applicant is a juristic entity)
- ☐ Person Who Otherwise Shows Sufficient Proprietary Interest (e.g., a petition under 37 CFR 1.46(b)(2) was granted in the application or is concurrently being filed with this document) (provide signer's title if applicant is a juristic entity)

SIGNATURE of Applicant for Patent

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

Signature		Date (Optional)	August 28, 2024
Name	Yossi Koren		
Title	Manager		

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.

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

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

STATEMENT UNDER 37 CFR 3.73(c)

Applicant/Patent Owner: QPrivacy USA LLC

Application No./Patent No.: 11,816,249

Filed/Issue Date: 11/14/2023

Titled: SYSTEM AND METHOD FOR DYNAMIC MANAGEMENT OF PRIVATE DATA

QPrivacy USA LLC, a company

(Name of Assignee)

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

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

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

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

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

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

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

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

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

1. From: inventors To: PRIVACY RATING LTD.

The document was recorded in the United States Patent and Trademark Office at
Reel 062351, Frame 0194, or for which a copy thereof is attached.

2. From: PRIVACY RATING LTD. To: QPrivacy USA LLC

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

[Page 1 of 2]

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

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

STATEMENT UNDER 37 CFR 3.73(c)

3. From: _____ To: _____

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

4. From: _____ To: _____

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

5. From: _____ To: _____

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

6. From: _____ To: _____

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

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

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

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

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

/Roy D. Gross/

Signature

Roy D. Gross

Printed or Typed Name

August 28, 2024

Date

63,524

Title or Registration Number

Privacy Act Statement

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

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

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



UNITED STATES PATENT AND TRADEMARK OFFICE

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

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
18/095,238	01/10/2023	Yoseph KOREN	P-566702-US2	2028
49443	7590	11/14/2023		
Pearl Cohen Zedek Latzer Baratz LLP			EXAMINER	
7 Times Square			TABOR, AMARE F	
19th Floor				
New York, NY 10036			ART UNIT	PAPER NUMBER
			2434	
			NOTIFICATION DATE	DELIVERY MODE
			11/14/2023	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):

Arch-USPTO@PearlCohen.com
USPTO@PearlCohen.com



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.
18/095,238	14-Nov-2023	11816249

Pearl Cohen Zedek Latzer Baratz LLP
7 Times Square
New York, NY 10036

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 NO.	ISSUE DATE	PATENT NO.	ATTORNEY DOCKET NO.	CONFIRMATION NO.
18/095,238	11/14/2023	11816249	P-566702-US2	2028
49443	7590	10/25/2023		
Pearl Cohen Zedek Latzer Baratz LLP 7 Times Square 19th Floor New York, NY 10036				

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):

Yoseph KOREN, Ganey Tikva, ISRAEL;
Yehonatan WASSERMAN, Kiryat Ono, ISRAEL;

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

Privacy Rating Ltd., Ganey Tikva, ISRAEL;

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](https://selectusa.gov).



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.
18/095,238	01/10/2023	Yoseph KOREN	P-566702-US2	2028

7590 10/18/2023
Pearl Cohen Zedek Latzer Baratz LLP
7 Times Square
19th Floor
New York, NY 10036

EXAMINER
TABOR, AMARE F

ART UNIT PAPER NUMBER
2434

DATE MAILED : 10/18/2023

FOREIGN PRIORITY ACKNOWLEDGMENT

☒ 1. Certified Copy Timely Received Before Payment of the Issue Fee:

Applicant previously submitted a claim for foreign priority under 35 U.S.C. 119(a)-(d) or (f).

☒ Certified copies of the priority documents have been received.

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

☐ Some of the certified copies of the priority documents have not been received: _____.

If the certified copy of a foreign application that has not been received is filed after the date the issue fee is paid, the patent will not include the priority claim unless corrected by a certificate of correction under 35 U.S.C. 255 and 37 CFR 1.323.

☐ 2. Certified Copy Received After Payment of the Issue Fee:

Applicant previously submitted a claim for foreign priority under 35 U.S.C. 119(a)-(d) or (f). Applicant submitted the certified copy after payment of the issue fee. The patent will not include the priority claim unless corrected by a certificate of correction under 35 U.S.C. 255 and 37 CFR 1.323.

Note: For utility or plant applications filed under 35 U.S.C. 111(a) on or after March 16, 2013, the certified copy may be timely received if the certified copy was filed within the later of four months from the filing date or sixteen months from the filing date of the prior foreign application (the 4/16 month time period) or if one of the exceptions in 37 CFR 1.55 (i.e., certified copy in a prior-filed nonprovisional application under 37 CFR 1.55(h), priority document exchange under 37 CFR 1.55(i), or interim copy under 37 CFR 1.55(j) is applicable. The 4/16 month time period does not apply to design applications.

C. Garner, for

571-272-4200 or 1-888-786-0101
Application Assistance Unit
Office of Patents Stakeholder Experience (OPSE)
Stakeholder Support Division (SSD)



United States Patent and Trademark Office

Office of the Chief Financial Officer

Document Code:WFEE

User :Sengpheth Sandara

Refund Accounting Date:08/30/2023

Effective Date	Sale Item Reference Number	Refund Total
08/08/2023	18095238	\$544.00

Document Number	Fee Code	Fee Code Description	Amount Paid	Payment Method	Account Number
I20238TH40249974	2801	RCE- 1ST REQUEST	\$544.00	American Express	*****2486



United States Patent and Trademark Office

Office of the Chief Financial Officer

Document Code:WFEE

User :Sengpheth Sandara

Sale Adjustment Accounting Date:08/30/2023

Effective Date	Sale Accounting Date	Sale Item Reference Number
08/08/2023	08/30/2023	18095238

Document Number	Fee Code	Fee Code Description	Amount Paid	Payment Method
I20238TH40249974	2801	RCE- 1ST REQUEST	\$544.00	American Express



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United States Patent and Trademark Office
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www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
18/095,238	01/10/2023	Yoseph KOREN	P-566702-US2	2028
49443	7590	08/23/2023		
Pearl Cohen Zedek Latzer Baratz LLP			EXAMINER	
7 Times Square			TABOR, AMARE F	
19th Floor				
New York, NY 10036			ART UNIT	PAPER NUMBER
			2434	
			NOTIFICATION DATE	DELIVERY MODE
			08/23/2023	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):

Arch-USPTO@PearlCohen.com
USPTO@PearlCohen.com

corrected Notice of Allowability	Application No. 18/095,238	Applicant(s) KOREN et al.		
	Examiner KAMBIZ ZAND	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Art Unit 2434</td> <td style="width: 50%;">AIA (FITF) Status Yes</td> </tr> </table>	Art Unit 2434	AIA (FITF) Status Yes
Art Unit 2434	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 08/08/2023.
☐ 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 1-30 . As a result of the allowed claim(s), you may be eligible to benefit from the **Patent Prosecution Highway** program at a participating intellectual property office for the corresponding application. For more information, please see http://www.uspto.gov/patents/init_events/pph/index.jsp or send an inquiry to PPHfeedback@uspto.gov.

4. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
Certified copies:
 a) ☒ All b) ☐ Some* c) ☐ None of the:
 1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
 * Certified copies not received: _____.

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

5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

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

Attachment(s)

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

/KAMBIZ ZAND/ Supervisory Patent Examiner, Art Unit 2434	
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PTO/SB/08a (07-09)

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 contains a valid OMB control number.

Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>				Complete if Known	
				Application Number	18/095,238
				Filing Date	January 10, 2023
				First Named Inventor	Yoseph KOREN
				Art Unit	2434
				Examiner Name	TABOR, AMARE F
Sheet	1	of	1	Attorney Docket Number	P-566702-US2

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number Number-Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	1.	US-9,917,856	Mar 13. 2018	Ahn et al	
	2.	US-9,560,176	Jan 31. 2017	Ahn et al	
	3.	US-9,686,193	Jun 20. 2017	Moore	
	4.	US-9,203,806	Dec 1. 2015	Ahn et al	
	5.	US-9,137,205	Sep 15. 2015	Rogers et al	
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FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Country Code ³	Number ⁴ Kind Code ⁵ (if known)			
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						☐
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Examiner Signature	/KAMBIZ ZAND/	Date Considered	08/16/2023
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

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 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, 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 (1-800-786-9199) and select option 2

Doc Code: QPIDS.REQ

Document Description: QuickPath Information Disclosure Statement

PTO/SB/09 (09-18)

CERTIFICATION AND REQUEST FOR CONSIDERATION OF AN INFORMATION DISCLOSURE STATEMENT FILED AFTER PAYMENT OF THE ISSUE FEE UNDER THE QPIDS PROGRAM	
Non-Provisional Application Number: 18/095,238	Filing Date: 01-10-2023
First Named Inventor: Yoseph KOREN	Title of Invention: SYSTEM AND METHOD FOR DYNAMIC MANAGEMENT OF PRIVATE DATA
THE UNDERSIGNED HEREBY CERTIFIES AND REQUESTS THE FOLLOWING FOR THE ABOVE-IDENTIFIED APPLICATION. 1. Consideration is requested of the information disclosure statement (IDS) submitted herewith, which is being filed after payment of the issue fee. 2. Check the box next to the appropriate selection: ☐ Each item of information contained in the IDS 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 IDS. See 37 CFR 1.97(e)(1). OR ☒ No item of information contained in the IDS 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 IDS was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the IDS. See 37 CFR 1.97(e)(2). OR ☐ See attached certification statement in compliance with 37 CFR 1.97(e). 3. Please charge the IDS fee set forth in 37 CFR 1.17(p) to Deposit Account No. _____. 4. A Petition to Withdraw from Issue After Payment of the Issue Fee (37 CFR 1.313(c)(2)), including the petition fee set forth in 37 CFR 1.17(h), is submitted herewith as a Web-based ePetition. WARNING: Do <u>not</u> submit the petition as a follow-on paper via EFS-Web. Submit the petition as a Web-based ePetition by signing on to EFS-Web as a registered user, selecting the radio button next to "Existing application/patent," and then selecting the radio button next to "ePetition (for automatic processing and immediate grant, if all petitions requirements are met)." Failure to use the Web-based ePetition interface will result in automatic entry of the RCE. 5. A request for continued examination (RCE) under 37 CFR 1.114 and the RCE fee under 37 CFR 1.17(e) are submitted herewith. 6. The RCE will be treated as a "conditional" RCE. In the event the examiner determines that any item of information contained in the IDS necessitates the reopening of prosecution in the application, the undersigned understands that (i) the RCE will be processed and treated as an RCE under 37 CFR 1.114 and therefore (ii) the IDS fee under 37 CFR 1.17(p) will be returned in accordance with 37 CFR 1.97(b)(4). In the event that no item of information in the IDS necessitates reopening prosecution, the undersigned understands that the RCE will not be processed and the RCE fee under 37 CFR 1.17(e) will be returned. 7. This certification and request is being filed as a Web-based ePetition and is not accompanied by an amendment to the application. Inclusion of an amendment will result in automatic entry of the RCE.	
Signature /Brendan Mee/	Date August 7, 2023
Name (Print/Typed) Brendan S. Mee	Practitioner Registration Number (If applicable) 43,391
Note: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required in accordance with 37 CFR 1.33 and 11.18. Please see 37 CFR 1.4(d) for the form of the signature. If necessary, submit multiple forms for more than one signature, see below.*	
☒ *Total of <u>1</u> forms are submitted.	

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

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

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

Electronic Patent Application Fee Transmittal				
Application Number:		18095238		
Filing Date:		10-Jan-2023		
Title of Invention:		SYSTEM AND METHOD FOR DYNAMIC MANAGEMENT OF PRIVATE DATA		
First Named Inventor/Applicant Name:		Yoseph KOREN		
Filer:		Brendan S. Mee/Mark Soffer		
Attorney Docket Number:		P-566702-US2		
Filed as Small Entity				
Filing Fees for Utility under 35 USC 111(a)				
Description		Fee Code	Quantity	Sub-Total in USD(\$)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Miscellaneous:				
SUBMISSION- INFORMATION DISCLOSURE STMT	2806	1	104	104
Total in USD (\$)				104

Electronic Acknowledgement Receipt	
EFS ID:	48407441
Application Number:	18095238
International Application Number:	
Confirmation Number:	2028
Title of Invention:	SYSTEM AND METHOD FOR DYNAMIC MANAGEMENT OF PRIVATE DATA
First Named Inventor/Applicant Name:	Yoseph KOREN
Customer Number:	49443
Filer:	Brendan S. Mee/Mark Soffer
Filer Authorized By:	Brendan S. Mee
Attorney Docket Number:	P-566702-US2
Receipt Date:	08-AUG-2023
Filing Date:	10-JAN-2023
Time Stamp:	09:27:36
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	CARD
Payment was successfully received in RAM	\$104
RAM confirmation Number	E202388028119540
Deposit Account	602041
Authorized User	Mark Soffer
The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows: 37 CFR 1.21 (Miscellaneous fees and charges) 37 CFR 1.20 (Post Issuance fees)	

37 CFR 1.19 (Document supply fees)
 37 CFR 1.17 (Patent application and reexamination processing fees)
 37 CFR 1.16 (National application filing, search, and examination fees)

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Fee Worksheet (SB06)	fee-info.pdf	38083	no	2
			6f317688eda5696c06b88c0bbfef339ccb873ee8		

Warnings:

Information:

Total Files Size (in bytes):	38083
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This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

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

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

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

New International Application Filed with the USPTO as a Receiving Office

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

CERTIFICATION AND REQUEST FOR CONSIDERATION OF AN INFORMATION DISCLOSURE STATEMENT FILED AFTER PAYMENT OF THE ISSUE FEE UNDER THE QPIDS PROGRAM	
Non-Provisional Application Number: 18/095,238	Filing Date: 01-10-2023
First Named Inventor: Yoseph KOREN	Title of Invention: SYSTEM AND METHOD FOR DYNAMIC MANAGEMENT OF PRIVATE DATA
THE UNDERSIGNED HEREBY CERTIFIES AND REQUESTS THE FOLLOWING FOR THE ABOVE-IDENTIFIED APPLICATION. 1. Consideration is requested of the information disclosure statement (IDS) submitted herewith, which is being filed after payment of the issue fee. 2. Check the box next to the appropriate selection: ☐ Each item of information contained in the IDS 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 IDS. See 37 CFR 1.97(e)(1). OR ☒ No item of information contained in the IDS 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 IDS was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the IDS. See 37 CFR 1.97(e)(2). OR ☐ See attached certification statement in compliance with 37 CFR 1.97(e). 3. Please charge the IDS fee set forth in 37 CFR 1.17(p) to Deposit Account No. _____. 4. A Petition to Withdraw from Issue After Payment of the Issue Fee (37 CFR 1.313(c)(2)), including the petition fee set forth in 37 CFR 1.17(h), is submitted herewith as a Web-based ePetition. WARNING: Do <u>not</u> submit the petition as a follow-on paper via EFS-Web. Submit the petition as a Web-based ePetition by signing on to EFS-Web as a registered user, selecting the radio button next to "Existing application/patent," and then selecting the radio button next to "ePetition (for automatic processing and immediate grant, if all petitions requirements are met)." Failure to use the Web-based ePetition interface will result in automatic entry of the RCE. 5. A request for continued examination (RCE) under 37 CFR 1.114 and the RCE fee under 37 CFR 1.17(e) are submitted herewith. 6. The RCE will be treated as a "conditional" RCE. In the event the examiner determines that any item of information contained in the IDS necessitates the reopening of prosecution in the application, the undersigned understands that (i) the RCE will be processed and treated as an RCE under 37 CFR 1.114 and therefore (ii) the IDS fee under 37 CFR 1.17(p) will be returned in accordance with 37 CFR 1.97(b)(4). In the event that no item of information in the IDS necessitates reopening prosecution, the undersigned understands that the RCE will not be processed and the RCE fee under 37 CFR 1.17(e) will be returned. 7. This certification and request is being filed as a Web-based ePetition and is not accompanied by an amendment to the application. Inclusion of an amendment will result in automatic entry of the RCE.	
Signature /Brendan Mee/	Date August 7, 2023
Name (Print/Typed) Brendan S. Mee	Practitioner Registration Number (If applicable) 43,391
Note: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required in accordance with 37 CFR 1.33 and 11.18. Please see 37 CFR 1.4(d) for the form of the signature. If necessary, submit multiple forms for more than one signature, see below.*	
☒ *Total of <u>1</u> forms are submitted.	

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

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

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

Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>				Complete if Known	
				Application Number	18/095,238
				Filing Date	January 10, 2023
				First Named Inventor	Yoseph KOREN
				Art Unit	2434
				Examiner Name	TABOR, AMARE F
Sheet	1	of	1	Attorney Docket Number	P-566702-US2

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
	1.	US-9,917,856	Mar 13. 2018	Ahn et al	
	2.	US-9,560,176	Jan 31. 2017	Ahn et al	
	3.	US-9,686,193	Jun 20. 2017	Moore	
	4.	US-9,203,806	Dec 1. 2015	Ahn et al	
	5.	US-9,137,205	Sep 15. 2015	Rogers et al	
		US-			
		US-			
		US-			
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		US-			
		US-			
		US-			
		US-			

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ Number ⁴ Kind Code ⁵ (if known)				
						☐
						☐
						☐
						☐
						☐
						☐

Examiner Signature		Date Considered	
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

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 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, 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 (1-800-786-9199) and select option 2

Doc Code: PET.AUTO Document Description: Petition automatically granted by EFS-Web		PTO/SB/140 U.S. Patent and Trademark Office Department of Commerce
Electronic Petition Request	PETITION TO WITHDRAW AN APPLICATION FROM ISSUE AFTER PAYMENT OF THE ISSUE FEE UNDER 37 CFR 1.313(c)	
Application Number	18095238	
Filing Date	10-Jan-2023	
First Named Inventor	Yoseph KOREN	
Art Unit	2434	
Examiner Name	AMARE TABOR	
Attorney Docket Number	P-566702-US2	
Title	SYSTEM AND METHOD FOR DYNAMIC MANAGEMENT OF PRIVATE DATA	
An application may be withdrawn from issue for further action upon petition by the applicant. To request that the Office withdraw an application from issue, applicant must file a petition under this section including the fee set forth in § 1.17(h) and a showing of good and sufficient reasons why withdrawal of the application from issue is necessary. APPLICANT HEREBY PETITIONS TO WITHDRAW THIS APPLICATION FROM ISSUE UNDER 37 CFR 1.313(c). A grantable petition requires the following items: (1) Petition fee; and (2) One of the following reasons: (a) Unpatentability of one or more claims, which must be accompanied by an unequivocal statement that one or more claims are unpatentable, an amendment to such claim or claims, and an explanation as to how the amendment causes such claim or claims to be patentable; (b) Consideration of a request for continued examination in compliance with § 1.114 (for a utility or plant application only); or (c) Express abandonment of the application. Such express abandonment may be in favor of a continuing application, but not a CPA under 37 CFR 1.53(d).		
Petition Fee		
☒ Small Entity		
☐ Micro Entity		
☐ Regular Undiscounted		
Reason for withdrawal from issue		

☐ One or more claims are unpatentable ☒ Consideration of a request for continued examination (RCE) (List of Required Documents and Fees) ☐ Applicant hereby expressly abandons the instant application (any attorney/agent signing for this reason must have power of attorney pursuant to 37 CFR 1.32(b)).	
RCE request, submission, and fee. ☐ I certify, in accordance with 37 CFR 1.4(d)(4) that : The RCE request ,submission, and fee have already been filed in the above-identified application on ☒ Are attached.	
THIS PORTION MUST BE COMPLETED BY THE SIGNATORY OR SIGNATORIES I certify, in accordance with 37 CFR 1.4(d)(4) that I am: ☒ An attorney or agent registered to practice before the Patent and Trademark Office who has been given power of attorney in this application. ☐ An attorney or agent registered to practice before the Patent and Trademark Office, acting in a representative capacity. ☐ A sole inventor ☐ A joint inventor; I certify that I am authorized to sign this submission on behalf of all of the inventors as evidenced by the power of attorney in the application ☐ A joint inventor; all of whom are signing this e-petition	
Signature	/Brendan Mee/
Name	Brendan Mee
Registration Number	43391

Electronic Patent Application Fee Transmittal				
Application Number:		18095238		
Filing Date:		10-Jan-2023		
Title of Invention:		SYSTEM AND METHOD FOR DYNAMIC MANAGEMENT OF PRIVATE DATA		
First Named Inventor/Applicant Name:		Yoseph KOREN		
Filer:		Brendan S. Mee/Mark Soffer		
Attorney Docket Number:		P-566702-US2		
Filed as Small Entity				
Filing Fees for Utility under 35 USC 111(a)				
Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Basic Filing:				
PETITION FEE-37CFR 1.17(H) (GROUP II)	2464	1	56	56
RCE- 1ST REQUEST	2801	1	544	544
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				

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



UNITED STATES PATENT AND TRADEMARK OFFICE

Commissioner for Patents
United States Patent and Trademark Office
P.O. Box 1450
Alexandria, VA 22313-1450
www.uspto.gov

Decision Date : August 8, 2023

In re Application of :

Yoseph KOREN

DECISION ON PETITION

UNDER CFR 1.313(c)(2)

Application No : 18095238

Filed : 10-Jan-2023

Attorney Docket No : P-566702-US2

This is an electronic decision on the petition under 37 CFR 1.313(c)(2), filed August 8, 2023 , to withdraw the above-identified application from issue after payment of the issue fee.

The petition is **GRANTED**.

The above-identified application is withdrawn from issue for consideration of a submission under 37 CFR 1.114 (request for continued examination). See 37 CFR 1.313(c)(2).

Petitioner is advised that the issue fee paid in this application cannot be refunded. If, however, this application is again allowed, petitioner may request that it be applied towards the issue fee required by the new Notice of Allowance.

Telephone inquiries concerning this decision should be directed to the Patent Electronic Business Center (EBC) at 866-217-9197.

This application file is being referred to Technology Center AU 2434 for processing of the request for continuing examination under 37 CFR 1.114 .

Office of Petitions

Electronic Acknowledgement Receipt	
EFS ID:	48407408
Application Number:	18095238
International Application Number:	
Confirmation Number:	2028
Title of Invention:	SYSTEM AND METHOD FOR DYNAMIC MANAGEMENT OF PRIVATE DATA
First Named Inventor/Applicant Name:	Yoseph KOREN
Customer Number:	49443
Filer:	Brendan S. Mee/Mark Soffer
Filer Authorized By:	Brendan S. Mee
Attorney Docket Number:	P-566702-US2
Receipt Date:	08-AUG-2023
Filing Date:	10-JAN-2023
Time Stamp:	09:26:39
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	CARD
Payment was successfully received in RAM	\$ 600
RAM confirmation Number	E202388026369525
Deposit Account	602041
Authorized User	Mark Soffer
The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows: 37 CFR 1.21 (Miscellaneous fees and charges) 37 CFR 1.20 (Post Issuance fees)	

37 CFR 1.19 (Document supply fees)					
37 CFR 1.17 (Patent application and reexamination processing fees)					
37 CFR 1.16 (National application filing, search, and examination fees)					
File Listing:					
Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Quick Path Information Disclosure Statement	sb0009.pdf	177102	no	2
			ec8330e4fb6ea688ac1f5cd10f5eeba8a79cf a97		
Warnings:					
Information:					
2	Request for Continued Examination (RCE)	P-566702-US2-RCE-REQ-7AUG23.pdf	121746	no	1
			2ae49430f682f270de5fa871c257435eb0fb 6ba0		
Warnings:					
This is not a USPTO supplied RCE SB30 form.					
Information:					
3	Information Disclosure Statement (IDS) Form (SB08)	P-566702-US2-IDS-TABLE-7AUG23.pdf	116911	no	1
			6ec85c484e6f73e020a5347e2f8981710040 32c7		
Warnings:					
Information:					
This is not an USPTO supplied IDS fillable form					
4	ePetition Request Form	petition-request.pdf	39954	no	2
			d99874f01b032b511dacddf3138c9c68b6e b2635		
Warnings:					
Information:					
5	Fee Worksheet (SB06)	fee-info.pdf	40485	no	2
			d9cc2cda2e3b7f56112f369b22b462dd8a0 93d0b		
Warnings:					
Information:					
Total Files Size (in bytes):			496198		

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

New Applications Under 35 U.S.C. 111

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

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

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

New International Application Filed with the USPTO as a Receiving Office

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

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Inventor(s):	Yoseph KOREN	Examiner:	TABOR, AMARE F.
Serial No.:	18/095,238	Group Art Unit:	2434
Filed:	January 10, 2023	Confirmation No.:	2028
Title:	SYSTEM AND METHOD FOR DYNAMIC MANAGEMENT OF PRIVATE DATA		

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

RESPONSE TO NOTICE REGARDING FOREIGN PRIORITY
(Notice of Allowance Mailed)

Sir/Madam:

In response to the Notice Regarding Foreign Priority mailed July 12, 2023, which indicates that the Certified Copy of the IL Priority (IL 251683) does not match the priority claim information, Applicant, pursuant to a call held with the USPTO yesterday July 17, 2023, is enclosing the correct IL filing receipt for the priority application.

The correct priority document itself (IL 251683) is in the file, with a mailroom date of February 17, 2023, and with a Certificate of Availability noting the correct application number. The Digital Access Service (DAS) erroneously attached the incorrect Filing Receipt (for IL 257683) to the Certified Copy on record. This is an obvious error. The priority document itself is correct, as is the cover letter provided by the Digital Access Service.

The information for the priority claim (IL 251683) appears correctly on the Application Data Sheet for the application and Applicant paid a fee to retrieve the Certified Copy and provide it via the DAS exchange.

In the phone call with Application Assistance Unit on July 17, 2023, it was agreed that it was not necessary to provide a new Certified Copy and that submission of the IL filing receipt would suffice to place this application in order and proceed with the issuance of the patent.

A response is due September 12, 2023. Accordingly, this Response is being timely filed.

To the extent that there are any fees associated with this filing that are due but are not paid or are not able to be paid by a credit card mentioned elsewhere in this document, Applicants

APPLICANTS: KOREN, Yoseph
SERIAL NO.: 18/095,238
FILED: January 10, 2023
Page 2

authorize the U.S. Patent and Trademark Office to charge any such fees to deposit account No. 60-2041.

Respectfully submitted,

/Brendan Mee/
Brendan S. Mee
Attorney/Agent for Appellant
Registration No. 43,391

Dated: July 18, 2023

Pearl Cohen Zedek Latzer Baratz LLP
7 Times Square, 19th Floor
New York, New York 10036
Tel: (646) 878-0800
Fax: (646) 878-0801

**State of Israel
Patent Office**

**אישור הגשת בקשה
Filing Receipt**

**מדינת ישראל
רשות הפטנטים**

Confidential for applicant only

שמור למבקש בלבד

Application No:

251683

מספר בקשה:

Date of application:

09/04/2017

תאריך הבקשה:

Date of submission:

09/04/2017

תאריך הגשה:

SYSTEM AND METHOD FOR DYNAMIC
MANAGEMENT OF PRIVATE DATA

מערכת ושיטה לניהול דינאמי של נתונים פרטיים

Patentee(s):	בעלי הפטנט:
KOREN, Yoseph Customer No: 923084 91 HAGALIL STREET GANAY-TIKVA, 5591491 ISRAEL	יוסף קורן קוד לקוח: 923084 הגליל 91 גני תקווה 5591491 ישראל
Inventor(s):	ממציא(ים):
KOREN, Yoseph Customer No: 923085 ISRAEL	יוסף קורן קוד לקוח: 923085 ישראל
WASSERMAN, Yehonatan Customer No: 923086 ISRAEL	יהונתן וסרמן קוד לקוח: 923086 ישראל

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5 SHENKAR ST.,
P.O.B. 12704,
HERZLIYA 4673339
Israel
ipomail@pczlaw.com

המען למסירת הודעות:

פרל כהן צדק לצר ברץ
מרכז גב-ים 1, רח' שנקר 5
ת.ד. 12704
הרצליה 4673339
ישראל
ipomail@pczlaw.com

Reference:

P-566702-IL

סימוכין:

Invention owner by:

בהיותי הממציא inventorship

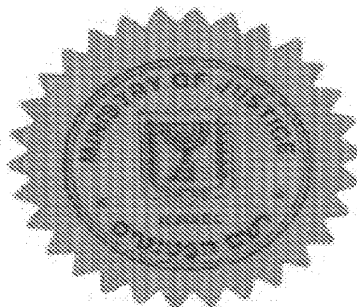
המצאה מכח:

אישור זה כשהוא חתום בחותמת רשות הפטנטים מהווה אישור הגשת בקשה בלבד ואינו מהווה תעודה המעידה על רישום הפטנט. במידה ונמצא שיבוש בקליטת הנתונים כפי שהם מופיעים באישור זה הינכם מתבקשים להעיר את הערותיכם תוך עשרה ימים מהיום.

**State of Israel
Patent Office**

**אישור הגשת בקשה
Filing Receipt**

**מדינת ישראל
רשות הפטנטים**



Register of Patents

As of

25/04/2017

רשם הפטנטים

מצב ליום

Electronic Acknowledgement Receipt	
EFS ID:	48310421
Application Number:	18095238
International Application Number:	
Confirmation Number:	2028
Title of Invention:	SYSTEM AND METHOD FOR DYNAMIC MANAGEMENT OF PRIVATE DATA
First Named Inventor/Applicant Name:	Yoseph KOREN
Customer Number:	49443
Filer:	Brendan S. Mee/Mark Soffer
Filer Authorized By:	Brendan S. Mee
Attorney Docket Number:	P-566702-US2
Receipt Date:	18-JUL-2023
Filing Date:	10-JAN-2023
Time Stamp:	11:42:59
Application Type:	Utility under 35 USC 111(a)

Payment information:

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

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Amendment after Notice of Allowance (Rule 312)	P-566702-US2- RESNOMP-18JUL23.pdf	206876 22ebf352252467a1b81b96ba9b77ba5166 b573f6	no	4

Warnings:

Information:	
Total Files Size (in bytes):	206876
This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503. <u>New Applications Under 35 U.S.C. 111</u> If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application. <u>National Stage of an International Application under 35 U.S.C. 371</u> If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course. <u>New International Application Filed with the USPTO as a Receiving Office</u> If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.	



UNITED STATES PATENT AND TRADEMARK OFFICE

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

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
18/095,238	01/10/2023	Yoseph KOREN	P-566702-US2	2028
49443	7590	07/12/2023	EXAMINER	
Pearl Cohen Zedek Latzer Baratz LLP			TABOR, AMARE F	
7 Times Square				
19th Floor				
New York, NY 10036			ART UNIT	PAPER NUMBER
			2434	
			NOTIFICATION DATE	DELIVERY MODE
			07/12/2023	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):

Arch-USPTO@PearlCohen.com
USPTO@PearlCohen.com



UNITED STATES PATENT AND TRADEMARK OFFICE

Commissioner for Patents
United States Patent and Trademark Office
P.O. Box 1450
Alexandria, VA 22313-1450
www.uspto.gov

Application No. : 18095238
Applicant : Koren
Filing Date : 01/10/2023
Date Mailed : 07/12/2023

NOTICE REGARDING FOREIGN PRIORITY

Notice of Allowance Mailed

This application has been accorded an Allowance Date and is being prepared for issuance. The application, however, is incomplete for the reasons below.

Applicant is given two (2) months from the mail date of this Notice within which to respond. This time period for reply is extendable under 37 CFR 1.136(a) for only TWO additional MONTHS.

The application is not in compliance with 37 CFR 1.55, as indicated in the attachment.

Even if the Office has recognized a foreign priority claim and has entered it into the Office's database and included it on applicant's filing receipt, the foreign priority claim is not proper unless it complies with 37 CFR 1.55 and all other requirements are met.

If the applicant fails to respond within the above-identified time period, the patent will be printed without the foreign priority information. Even if a proper response is timely submitted, if the correct claim for priority or the correct certified copy is filed after the date the issue fee is paid, the patent will not include the foreign priority information unless corrected by a certificate of correction under 35 U.S.C. 255 and 37 CFR 1.323.

See attachment.

*A copy of this notice **MUST** be returned with the reply. Please address response to
"Mail Stop Issue Fee, Commissioner for Patents,
P.O. Box 1450, Alexandria, VA 22313-1450".*

/Joseph Boris/
Publication Branch
Office of Data Management
(571) 272-4200

**APPLICATION FILED BEFORE MARCH 16, 2013
NOT IN COMPLIANCE WITH 37 CFR 1.55
(Attachment to Notice Regarding Foreign Priority)**

This attachment may be used for national stage applications that commenced before December 18, 2013.

Certified Copy Does Not Match Priority Claim Information:

- ☒ A. Certified Copy Received Before Payment of the Issue Fee, Application Information (e.g., application number, filing date, and/or country) Does Not Match Priority Claim Information:
ADS 01/10/2023 claims IL 251683 but PD.FILED.F 02/17/2023 is for IL 257683.

If the certified copy is correct, applicant must timely correct the priority claim. A petition to accept an unintentionally delayed claim is required if the priority claim is not made within four months of the filing date of the application or sixteen months from the filing date of the prior foreign application (unless the application is an application for a design patent or an application filed before November 29, 2000). See 37 CFR 1.55(e).

If the certified copy is not correct, applicant must timely file the correct certified copy. See 37 CFR 1.55(g).

- ☐ B. Certified Copy Received After Payment of the Issue Fee, Application Information (e.g., application number, filing date, and/or country) Does Not Match Priority Claim Information:
.

If the certified copy is correct, applicant must timely correct the priority claim. See 37 CFR 1.55(g). A petition to accept an unintentionally delayed claim is required if the priority claim is not made within four months of the filing date of the application or sixteen months from the filing date of the prior foreign application (unless the application is an application for a design patent or an application filed before November 29, 2000). See 37 CFR 1.55(e). In addition, a petition to withdraw the application from issue under 37 CFR 1.313(c) and a request for continued examination (RCE) under 37 CFR 1.114 is required in order to have the correct priority claim on the face of the patent (unless the application is an application for a design patent or an application filed before November 29, 2000). If the application is an application for a design patent or an application filed before November 29, 2000, a petition to accept an unintentionally delayed claim is not required as long as the priority claim is corrected during the pendency of the application, but the patent will not include the priority claim unless corrected by a certificate of correction under 35 U.S.C. 255 and 37 CFR 1.323.

If the certified copy is not correct, applicant must timely file the correct certified copy. See 37 CFR 1.55(g).

WARNING: If Applicant fails to timely submit a proper response, the patent will be printed without the foreign priority information present. Applicant is advised that even if a proper response is timely submitted, if the correct claim for priority or the correct certified copy is filed after the date the issue fee is paid, the patent will not include the priority claim unless corrected by a certificate of correction under 35 U.S.C. 255 and 37 CFR 1.323.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Inventor(s):	Yoseph KOREN	Examiner:	TABOR, AMARE F
Serial No.:	18/095,238	Group Art Unit:	2434
Filed:	January 10, 2023	Confirmation No.:	2028
Title:	SYSTEM AND METHOD FOR DYNAMIC MANAGEMENT OF PRIVATE DATA		

COMMENTS ON STATEMENT OF REASONS FOR ALLOWANCE

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

Sir/Madam:

Applicant(s) would like to thank the Examiner for the allowance of the subject application based on the distinctions enumerated in the statement of reasons for allowance. Applicant(s) agree, without prejudice, that these distinctions provide sufficient basis for allowance of the application. However, Applicant(s) respectfully submit that there may be alternative and/or additional patentable distinctions between the claimed invention and the cited prior art, related or unrelated to those explicitly addressed in the statement of reasons for allowance.

Should the Examiner have any question or comment as to the form, content or entry of this paper, the Examiner is requested to contact the undersigned counsel at the telephone number below.

APPLICANT(S): Yoseph KOREN
SERIAL NO.: 18/095,238
FILED: January 10, 2023
Page 2

To the extent that there are any fees associated with this filing that are due but are not paid or are not able to be paid by a credit card mentioned elsewhere in this document, Applicants authorize the U.S. Patent and Trademark Office to charge any such fees to deposit account No. 60-2041.

Respectfully submitted,

/Brendan Mee /

Brendan S. Mee
Attorney/Agent for Applicant(s)
Registration No. 43,391

Dated: July 6, 2023

Pearl Cohen Zedek Latzer Baratz LLP
7 Times Square, 19th Floor
New York, New York 10036
Tel: (646) 878-0800
Fax: (646) 878-0801

Electronic Patent Application Fee Transmittal				
Application Number:		18095238		
Filing Date:		10-Jan-2023		
Title of Invention:		SYSTEM AND METHOD FOR DYNAMIC MANAGEMENT OF PRIVATE DATA		
First Named Inventor/Applicant Name:		Yoseph KOREN		
Filer:		Brendan S. Mee/Mark Soffer		
Attorney Docket Number:		P-566702-US2		
Filed as Small Entity				
Filing Fees for Utility under 35 USC 111(a)				
Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
UTILITY APPL ISSUE FEE	2501	1	480	480

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

Electronic Acknowledgement Receipt	
EFS ID:	48262208
Application Number:	18095238
International Application Number:	
Confirmation Number:	2028
Title of Invention:	SYSTEM AND METHOD FOR DYNAMIC MANAGEMENT OF PRIVATE DATA
First Named Inventor/Applicant Name:	Yoseph KOREN
Customer Number:	49443
Filer:	Brendan S. Mee/Mark Soffer
Filer Authorized By:	Brendan S. Mee
Attorney Docket Number:	P-566702-US2
Receipt Date:	07-JUL-2023
Filing Date:	10-JAN-2023
Time Stamp:	10:49:06
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	CARD
Payment was successfully received in RAM	\$480
RAM confirmation Number	E202377A51455304
Deposit Account	602041
Authorized User	Mark Soffer
The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows: 37 CFR 1.16 (National application filing, search, and examination fees) 37 CFR 1.17 (Patent application and reexamination processing fees)	

37 CFR 1.19 (Document supply fees) 37 CFR 1.20 (Post Issuance fees) 37 CFR 1.21 (Miscellaneous fees and charges)					
File Listing:					
Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Issue Fee Payment (PTO-85B)	P-566702-US2-ISS-FEE-TRNSMTTL-6JUL23.pdf	125574	no	1
			f8795ca9663dd1c277a4a7429b45225d195cbfe		
Warnings:					
Information:					
2	Miscellaneous Incoming Letter	P-566702-US2-reasons-for-allowance-6JUL23.pdf	89106	no	2
			66bbd7e736976cd9cc2b4711006bc15ac6b5f97d		
Warnings:					
Information:					
3	Fee Worksheet (SB06)	fee-info.pdf	38224	no	2
			8f645d2b3b7f7b98d75075e26405f0eec78aef37		
Warnings:					
Information:					
Total Files Size (in bytes):			252904		
This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503. <u>New Applications Under 35 U.S.C. 111</u> If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application. <u>National Stage of an International Application under 35 U.S.C. 371</u> If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course. <u>New International Application Filed with the USPTO as a Receiving Office</u> If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.					

PART B – FEE(S) TRANSMITTAL

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

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

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

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

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

49443 7590 06/27/2023

PEARL COHEN ZEDEK LATZER BARATZ LLP
7 TIMES SQUARE, 19TH FLOOR
NEW YORK, NY 10036

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

Certificate of Mailing or Transmission

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

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

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
18/095,238	January 10, 2023	Yoseph KOREN	P-566702-US2	2028

TITLE OF INVENTION: SYSTEM AND METHOD FOR DYNAMIC MANAGEMENT OF PRIVATE DATA

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	09/27/2023

EXAMINER	ART UNIT	CLASS-SUBCLASS
Amare F. TABOR	2434	726-026000

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

- ☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.
☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-09 or more recent) attached. **Use of a Customer Number is required.**

2. For printing on the patent front page, list
(1) the names of up to 3 registered patent attorneys or agents OR, alternatively,
(2) the name of a single firm (have 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 PEARL COHEN ZEDEK
2 LATZER BARATZ LLP
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

PRIVACY RATING LTD.

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

GANEY TIKVA, ISRAEL (IL)

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

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

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

- ☒ Electronic Payment via EFS-Web ☐ Enclosed check ☐ Non-electronic payment by credit card (Attach form PTO-2038)
☒ To the extent any fees due associated with this filing are not paid or not able to be paid by credit card, and to the extent any overpayment is made, the Director is hereby authorized to charge the required fee(s), or credit any overpayment to Deposit Account No. **60-2041**

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 form 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 CFR 1.4 for signature requirements and certifications.

Authorized Signature: /Brendan Mee/

Date: July 6, 2023

Typed or printed name: Brendan S. Mee

Registration No: 43,391



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

49443 7590 06/27/2023
Pearl Cohen Zedek Latzer Baratz LLP
7 Times Square, 19th Floor
New York, NY 10036

EXAMINER

TABOR, AMARE F

ART UNIT

PAPER NUMBER

2434

DATE MAILED: 06/27/2023

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
18/095,238	01/10/2023	Yoseph KOREN	P-566702-US2	2028

TITLE OF INVENTION: SYSTEM AND METHOD FOR DYNAMIC MANAGEMENT OF PRIVATE DATA

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	09/27/2023

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 EFS-Web.

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

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

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence 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)

49443 7590 06/27/2023
Pearl Cohen Zedek Latzer Baratz LLP
7 Times Square, 19th Floor
New York, NY 10036

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

Certificate of Mailing or Transmission

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

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

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
18/095,238	01/10/2023	Yoseph KOREN	P-566702-US2	2028

TITLE OF INVENTION: SYSTEM AND METHOD FOR DYNAMIC MANAGEMENT OF PRIVATE DATA

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	09/27/2023

EXAMINER	ART UNIT	CLASS-SUBCLASS
TABOR, AMARE F	2434	726-026000

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

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

☐ "Fee Address" indication (or "Fee Address" Indication form PTO/AIA/47 or PTO/SB/47; Rev 03-02 or more recent) attached. **Use of a Customer Number is required.**

2. For printing on the patent front page, list

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

1 _____

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

2 _____

3 _____

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

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

(A) NAME OF ASSIGNEE

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

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

4a. Fees submitted: ☐ Issue Fee ☐ Publication Fee (if required)

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

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

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

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

☐ Applicant certifying micro entity status. See 37 CFR 1.29

☐ Applicant asserting small entity status. See 37 CFR 1.27

☐ Applicant changing to regular undiscounted fee status.

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

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

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

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

Authorized Signature _____

Date _____

Typed or printed name _____

Registration No. _____



UNITED STATES PATENT AND TRADEMARK OFFICE

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

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
18/095,238	01/10/2023	Yoseph KOREN	P-566702-US2	2028
49443	7590	06/27/2023		
Pearl Cohen Zedek Latzer Baratz LLP 7 Times Square, 19th Floor New York, NY 10036			EXAMINER TABOR, AMARE F	
			ART UNIT	PAPER NUMBER
			2434	
DATE MAILED: 06/27/2023				

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

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

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

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

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

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

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

Privacy Act Statement

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

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

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

Notice of Allowability	Application No. 18/095,238	Applicant(s) KOREN et al.	
	Examiner AMARE F TABOR	Art Unit 2434	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 06/01/2023.
☐ 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 1-30 . As a result of the allowed claim(s), you may be eligible to benefit from the **Patent Prosecution Highway** program at a participating intellectual property office for the corresponding application. For more information, please see http://www.uspto.gov/patents/init_events/pph/index.jsp or send an inquiry to PPHfeedback@uspto.gov.

4. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
Certified copies:
a) ☒ All b) ☐ Some* c) ☐ None of the:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
* Certified copies not received: _____.

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

5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

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

Attachment(s)

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

/AMARE F TABOR/ Primary Examiner, Art Unit 2434	
--	--

DETAILED ACTION

Notice of Pre-AIA or AIA Status

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

This is response to Amendments/REMARKS filed on 06/01/2023.

- Claims 1-30 are pending.

Allowable Subject Matter

Claims 1-30 are allowed.

- No reason for allowance is necessary as the record is clear in light of prosecution history; and amendments/remarks filed; and also, TD filed is approved. According to MPEP 1302.14 (I): "In most cases, the examiner's actions and the applicant's replies make evident the reasons for allowance, satisfying the "record as a whole" provision of the rule. This is particularly true when applicant fully complies with 37 CFR 1.111 (b) and (c) and 37 CFR 1.133(b). Thus, where the examiner's actions clearly point out the reasons for rejection and the applicant's reply explicitly presents reasons why claims are patentable over the reference, the reasons for allowance are in all probability evident from the record and no statement should be necessary."

Contact Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to AMARE F TABOR whose telephone number is (571) 270-3155.

The examiner can normally be reached **Mon.—Fri.: 8:00 AM to 5:00 PM.**

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, KAMBIZ ZAND can be reached on (571) 272-3811. 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.

Application/Control Number: 18/095,238
Art Unit: 2434

Page 4

/AMARE F TABOR/
Primary Examiner, Art Unit 2434

<i>Search Notes</i> 	Application/Control No. 18/095,238	Applicant(s)/Patent Under Reexamination KOREN et al.
	Examiner AMARE F TABOR	Art Unit 2434

CPC - Searched*		
Symbol	Date	Examiner
G06F21/6263 H04L63/0421,0428	05/05/2023	

CPC Combination Sets - Searched*		
Symbol	Date	Examiner

US Classification - Searched*			
Class	Subclass	Date	Examiner
726	26	05/05/2023	aft

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

Search Notes		
Search Notes	Date	Examiner
Inventor/Assignee Name Search	05/05/2023	aft
USPC, CPC & Keyword Search	05/05/2023	aft
Search including NPL (such as: IEEE, etc.) updated and/or conducted	06/12/2023	aft

Interference Search			
US Class/CPC Symbol	US Subclass/CPC Group	Date	Examiner
726	26	06/12/2023	aft
G06F	21/6263 H04L63/0421,0428	06/12/2023	aft
H04L	63/0421,0428	06/12/2023	aft

/A.F.T/ Primary Examiner, Art Unit 2434	
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Issue Classification 	Application/Control No. 18/095,238	Applicant(s)/Patent Under Reexamination KOREN et al.
	Examiner AMARE F TABOR	Art Unit 2434

CPC						
Symbol					Type	Version
G06F		21	/	6263	F	2013-01-01
H04L	/	63	/	0421	I	2013-01-01
H04L	/	63	/	0428	I	2013-01-01

CPC Combination Sets				
Symbol	Type	Set	Ranking	Version
/				

NONE	Total Claims Allowed:	
(Assistant Examiner)	(Date)	30
/AMARE F TABOR/ Primary Examiner, Art Unit 2434 (Primary Examiner)	12 June 2023 (Date)	O.G. Print Claim(s) 1 O.G. Print Figure 2

Issue Classification 	Application/Control No. 18/095,238	Applicant(s)/Patent Under Reexamination KOREN et al.
	Examiner AMARE F TABOR	Art Unit 2434

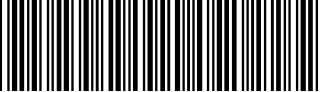
INTERNATIONAL CLASSIFICATION			
CLAIMED			
H04L9/40		9	40

NON-CLAIMED			

US ORIGINAL CLASSIFICATION	
CLASS	SUBCLASS
726	26

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

NONE		Total Claims Allowed:	
(Assistant Examiner)	(Date)	30	
/AMARE F TABOR/ Primary Examiner, Art Unit 2434 (Primary Examiner)	12 June 2023 (Date)	O.G. Print Claim(s) 1	O.G. Print Figure 2

Issue Classification 	Application/Control No. 18/095,238	Applicant(s)/Patent Under Reexamination KOREN et al.
	Examiner AMARE F TABOR	Art Unit 2434

☒ 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	Final
	1		10		19		28									
	2		11		20		29									
	3		12		21		30									
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	5		14		23											
	6		15		24											
	7		16		25											
	8		17		26											
	9		18		27											

NONE (Assistant Examiner) _____ (Date) _____		Total Claims Allowed: 30	
/AMARE F TABOR/ Primary Examiner, Art Unit 2434 (Primary Examiner) _____ (Date) 12 June 2023		O.G. Print Claim(s) 1	O.G. Print Figure 2

PTO/SB/08a (07-09)

Approved for use through 11/30/2020. OMB 0651-0031/

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>				Complete if Known	
				Application Number	Not Yet Assigned
				Filing Date	Herewith
				First Named Inventor	Yoseph KOREN
				Art Unit	Not Yet Assigned
				Examiner Name	Not Yet Assigned
Sheet	1	of	2	Attorney Docket Number	P-566702-US2

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number Number-Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	1	US-7,690,040	Mar 30, 2010	Frattura et al.	
	2	US-10,454,961	Oct 22, 2019	Frayman et al.	
		US-			
		US-			
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FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document Country Code ³ Number ⁴ Kind Code ⁵ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
	3	KR101503009 B1	Oct 14, 2014	SECUI CORP		☒
	4	JP4887081 B2	Feb 29, 2012	KDDI R&D LABORATORIES INC		☒
	5	JP3957712 B2	Aug 15, 2007	OKI ELECTRIC IND CO LTD		☒
						☐
						☐
						☐
						☐
						☐

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

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Substitute for form 1449B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i> <i>(use as many sheets as necessary)</i>				Complete if Known	
				Application Number	Not Yet Assigned
				Filing Date	Herewith
				First Named Inventor	Yoseph KOREN
				Art Unit	Not Yet Assigned
				Examiner Name	Not Yet assigned
Sheet	2	of	2	Attorney Docket Number	P-566702-US2

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (where appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	6	Akira YAMADA et al; " Intrusion Detection for Encrypted Web Accesses"; published in 21st International Conference on Advanced Information Networking and Applications Workshops (AINAW07); Date 21-23 May 2007	☐
	7	Blake ANDERSON et al; " Deciphering Malware's use of TLS (without Decryption)"; published in Journal of computer Virology and Hacking Techniques, 195-211; Date 31 August 2017	☐
	8	Arnon SHIMONI et al; " Malicious traffic detection using traffic fingerprint"; published in Article (CrossRef Link); dated 2014	☐
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			☐
			☐
			☐
			☐

Examiner Signature	/AMARE F TABOR/	Date Considered	05/04/2023
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PTO/SB/08a (07-09)

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Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>				Complete if Known	
				Application Number	Not Yet Assigned
				Filing Date	Herewith
				First Named Inventor	Yoseph KOREN
				Art Unit	Not Yet Assigned
				Examiner Name	Not Yet Assigned
Sheet	1	of	2	Attorney Docket Number	P-566702-US2

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number Number-Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	1	US-2010/0058054	Mar. 4, 2010	IRVINE	
	2	US-2012/0222083	Aug. 30, 2012	VAHA-SIPLA et al.	
	3	US-2012/0005720	Jan. 5, 2020	MCGLOIN et al.	
	4	US-2013/0318347	Nov. 28, 2013	MOFFAT	
	5	US-2013/0305044	Nov. 14, 2013	GUTT et al.	
	6	US-2014/0259147	Sep. 11, 2014	L'HEUREUX et al.	
	7	US-2014/0331054	Nov. 6, 2014	HANUMANTHARAYAPPA et al.	
	8	US-2017/0098215	Apr. 6, 2017	BROTSKY et al.	
	9	US-2017/0041297	Feb. 9, 2017	LING et al.	
	10	US-2018/0359811	Dec. 13, 2018	VERZUN et al.	
	11	US-2019/0149523	May 16, 2019	SHIN et al.	
	12	US-2019/0034826	Jan. 31, 2019	AHMAD et al.	
	13	US-6,965,992	Nov. 15, 2005	JOSEPH et al.	
	14	US-7,231,027	Jun. 12, 2007	SCHMID et al.	
	15	US-8,724,553	May 13, 2014	WENIGER et al.	
	16	US-9,477,836	Oct. 25, 2016	RAMAM et al.	
	17	US-9,609,025	Mar. 28, 2017	BETZLER et al.	
	18	US-10,348,715	Jul. 9, 2019	ROSS et al.	
	19	US-10,277,614	Apr. 30, 2019	KOIDE et al.	

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ Number ⁴ Kind Code ⁵ (if known)				
	20	WO 2013/103782	Jul. 11, 2013	3M Innovative Properties Co.		☐
	21	WO 2014/031041	Feb. 27, 2014	Telefonaktiebolaget L M Ericsson		☐
						☐
						☐

Examiner Signature	Date Considered
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PTO/SB/086 (07-09)

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Substitute for form 1449B/PTO				Complete If Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				Application Number	Not Yet Assigned
				Filing Date	Herewith
				First Named Inventor	Yoseph KOREN
				Art Unit	Not Yet Assigned
				Examiner Name	Not Yet Assigned
(use as many sheets as necessary)				Attorney Docket Number	P-566702-US2
Sheet	2	of	2		

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (where appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	22	International Search Report of PCT Application No. PCT/IL2018/050359 mailed on July 12, 2018	☐
	23	Office Action for Israeli Application No. 251683, mailed on July 31, 2018	☐
	24	Office Action for Israeli Application No. 251683, mailed on September 26, 2017	☐
	25	Supplementary European Search Report for Application No. EP 18785029, mailed on September 24, 2020	☐
	26	Office Action for US Application No. 16/603,252 mailed on September 28, 2020	☐
	27	Office Action for US Application No. 16/603,252 mailed on January 29, 2021	☐
	28	Notice of Allowance for US Application No. 16/603,252 mailed on April 29, 2021	☐
	29	Ant'onio Casimiro et al. "Proceedings of the Workshop on Secure and Dependable Middleware for Cloud Monitoring and Management" The Association for Computing Machinery, Inc, December 3, 2012	☐
	30	Hoang T. Dinh et al. "A survey of mobile cloud computing: Architecture, applications, and approaches Wireless Communications and Mobile Computing 13(18), December 2013	☐
	31	Bolin BING et al. "Differentially Private Data Cubes: Optimizing Noise Sources and Consistency" Proceedings of the 2011 ACM SIGMOD, pages 217-228, June 2011	☐
	32	ANDERSON et al. "Identifying Encrypted Malware Traffic with Contextual Flow Data" Conference: the 2016 ACM Workshop, October 2016	☐

Examiner Signature	/AMARE F TABOR/	Date Considered	05/11/2023
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

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Bibliographic Data

Application No: 18/095,238

Foreign Priority claimed: ☒ Yes ☐ No

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

Verified and Acknowledged:

/AMARE F TABOR/

Examiner's Signature

/aft/

Initials

Title:

SYSTEM AND METHOD FOR DYNAMIC MANAGEMENT OF
PRIVATE DATA

FILING or 371(c) DATE	CLASS	GROUP ART UNIT	ATTORNEY DOCKET NO.
01/10/2023	726	2434	P-566702-US2
RULE			

APPLICANTS

Privacy Rating Ltd., Ganey Tikva, ISRAEL

INVENTORS

Yoseph KOREN, Ganey Tikva, ISRAEL

Yehonatan WASSERMAN, Kiryat Ono, ISRAEL

CONTINUING DATA

This application is a CON of 17406272 08/19/2021

17406272 is a CON of 16603252 10/07/2019 PAT 11106824

16603252 is a 371 of PCT/IL2018/050359 03/28/2018

FOREIGN APPLICATIONS

ISRAEL IL251683 04/09/2017

IF REQUIRED, FOREIGN LICENSE GRANTED**

02/13/2023

** SMALL ENTITY **

STATE OR COUNTRY

ISRAEL

ADDRESS

Pearl Cohen Zedek Latzer Baratz LLP

7 Times Square, 19th Floor

New York, NY 10036

UNITED STATES

FILING FEE RECEIVED

\$2,800

PE2E SEARCH - Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	British Equivalents	Time Stamp
L1	0	"18095238"	(US-PGPUB; USPAT)	OR	ON	ON	2023/05/04 12:44 PM
L2	1	"17406272"	(US-PGPUB; USPAT)	OR	ON	ON	2023/05/04 12:44 PM
L3	1	"11106824" .pn.	(US-PGPUB; USPAT)	OR	ON	ON	2023/05/04 12:45 PM
L4	0	(Koren-Yoseph Wasserman-Yehonatan).in.	(US-PGPUB; USPAT)	OR	ON	ON	2023/05/04 12:46 PM
L5	5	(Privacy-Rating-Ltd\$ Privacy-Rating Privacy-Rating-\$).as.	(US-PGPUB; USPAT)	OR	ON	ON	2023/05/04 12:47 PM
L6	1	"11023617".pn.	(US-PGPUB; USPAT)	OR	ON	ON	2023/05/04 12:48 PM
L7	2	3 6	(US-PGPUB; USPAT)	OR	ON	ON	2023/05/04 12:50 PM
L8	1	(3 6) AND (encrypt\$ SAME packet)	(US-PGPUB; USPAT)	OR	ON	ON	2023/05/04 12:56 PM
L10	1	(3 6) AND (encrypt\$ AND packet)	(US-PGPUB; USPAT)	OR	ON	ON	2023/05/04 12:57 PM
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L13	22693	(G06F21/6263 H04L63/0421,0428).cpc	(US-PGPUB; USPAT)	OR	ON	ON	2023/05/04 01:43 PM

L14	1116	. AND @Ad<"20170409" (12 13) AND ((modif\$7 AND encrypt\$) WITH packet)	(US-PGPUB; USPAT)	OR	ON	ON	2023/05/04 04:00 PM
L15	97	(14) AND (((modif\$7 AND encrypt\$) WITH packet).ti. ((modif\$7 AND encrypt\$) WITH packet).ab. ((modif\$7 AND encrypt\$) WITH packet).clm.)	(US-PGPUB; USPAT)	OR	ON	ON	2023/05/04 04:00 PM
L16	20	(14) AND (((modif\$7 AND encrypt\$) WITH packet).ti. ((modif\$7 AND encrypt\$) WITH packet).ab.)	(US-PGPUB; USPAT)	OR	ON	ON	2023/05/04 04:01 PM
L17	15	L16 AND decrypt\$	(US-PGPUB; USPAT)	OR	ON	ON	2023/05/04 04:01 PM
L18	5	16 NOT 17	(US-PGPUB; USPAT)	OR	ON	ON	2023/05/04 04:02 PM
L19	1	"7706314" .pn. AND modif\$ WITH packet	(US-PGPUB; USPAT)	OR	ON	ON	2023/05/04 04:06 PM
L20	1	"6751728" .pn. AND modif\$ WITH packet	(US-PGPUB; USPAT)	OR	ON	ON	2023/05/04 04:09 PM
L21	62	("5548649" "5793763" "5845267" "6061794" "6154839" "6321336").pn. OR ("6751728").urpn. AND (PGPB USPT USOC).dbnm.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2023/05/04 04:10 PM
L22	62	21 AND @Ad<"20170409"	(US-PGPUB; USPAT)	OR	ON	ON	2023/05/04 04:10 PM
L23	18	22 AND modif\$ WITH packet	(US-PGPUB; USPAT)	OR	ON	ON	2023/05/04 04:11 PM
L24	10	22 AND (encrypt\$ AND modif\$) WITH packet	(US-PGPUB; USPAT)	OR	ON	ON	2023/05/04 04:11 PM
L25	1	"8543808" .pn. AND (modif\$ WITH packet) AND decrypt\$	(US-PGPUB; USPAT)	OR	ON	ON	2023/05/04 04:14 PM
L26	0	"8266267" .pn. AND (modif\$ WITH packet) AND decrypt\$	(US-PGPUB; USPAT)	OR	ON	ON	2023/05/04 04:16 PM
L27	1	"8266267" .pn. AND (modif\$ WITH packet) AND encrypt\$	(US-PGPUB; USPAT)	OR	ON	ON	2023/05/04 04:16 PM
L28	4	19 20 25 27	(US-PGPUB; USPAT)	OR	ON	ON	2023/05/04 04:18 PM
L29	1	"11106824" .pn. AND range	(US-PGPUB; USPAT)	OR	ON	ON	2023/05/04 04:38 PM
L30	20	("6965992" "7231027"	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2023/05/06

		"8724553" "9477836" "9609025" "10277614" "10348715" "20100058054" "20120005720" "20120222083" "20130305044" "20130318347" "20140259147" "20140331054" "20170041297" "20170098215" "20170118638" "20180359811" "20190034826" "20190149523").pn. OR ("11106824").urpn. AND (PGPB USPT USOC).dbnm.	USOCR)				01:26 PM
L31	17	30 AND @Ad<"20170409"	(US-PGPUB; USPAT)	OR	ON	ON	2023/05/06 01:26 PM
L32	25	("0000002" OR "0000008" OR "0000010" OR "20160146609" OR "0009609" OR "10277614" OR "10348715" OR "10454961" OR "20100058054" OR "20120005720" OR "20120222083" OR "20130305044" OR "20130318347" OR "20140259147" OR "20140331054" OR "20170041297" OR "20170098215" OR "20180359811" OR "20190034826" OR "20190149523" OR "6965992" OR "7231027" OR "7690040" OR "8724553" OR "9477836").pn.	(US-PGPUB; USPAT)	OR	ON	ON	2023/05/06 01:27 PM
L33	18	32 AND 30	(US-PGPUB; USPAT)	OR	ON	ON	2023/05/06 01:28 PM
L34	2	31 NOT 32	(US-PGPUB; USPAT)	OR	ON	ON	2023/05/06 01:28 PM
L35	6	("6751728" "7706314" "8266267" "8543808" "9609025" "20170118638").pn.	(US-PGPUB; USPAT)	OR	ON	ON	2023/05/06 01:30 PM
L36	4	L35 AND (encrypt\$	(US-PGPUB; USPAT)	OR	ON	ON	2023/05/06

L37	56	WITH packet) ("6751728").urpn. AND (PGPB USPT USOC).dbnm.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	01:30 PM 2023/05/06 01:46 PM
L38	56	37 AND @Ad<"20170409"	(US-PGPUB; USPAT)	OR	ON	ON	2023/05/06 01:47 PM
L39	28	38 AND (encrypt\$ WITH packet)	(US-PGPUB; USPAT)	OR	ON	ON	2023/05/06 01:47 PM
L40	6	39 AND ((encrypt\$ WITH packet).ti. (encrypt\$ WITH packet).ab.)	(US-PGPUB; USPAT)	OR	ON	ON	2023/05/06 01:48 PM
L41	1	35 AND 40	(US-PGPUB; USPAT)	OR	ON	ON	2023/05/06 01:48 PM
L42	5	35 NOT 40	(US-PGPUB; USPAT)	OR	ON	ON	2023/05/06 01:48 PM
L44	5	42 AND @Ad<"20170409"	(US-PGPUB; USPAT)	OR	ON	ON	2023/05/06 01:48 PM
L45	5	40 NOT 35	(US-PGPUB; USPAT)	OR	ON	ON	2023/05/06 01:50 PM
L46	5	45 AND @Ad<"20170409"	(US-PGPUB; USPAT)	OR	ON	ON	2023/05/06 01:51 PM
L47	7	(46 35) AND ((encrypt\$ AND modif\$) WITH packet)	(US-PGPUB; USPAT)	OR	ON	ON	2023/05/06 01:53 PM
L48	5	(46 35) AND ((encrypt\$ SAME modif\$) WITH packet)	(US-PGPUB; USPAT)	OR	ON	ON	2023/05/06 01:53 PM
L49	1	"7706314".pn.	(US-PGPUB; USPAT)	OR	ON	ON	2023/05/06 01:54 PM
L50	1	"8543808" .pn.	(US-PGPUB; USPAT)	OR	ON	ON	2023/05/06 01:56 PM
L51	9	45 36	(US-PGPUB; USPAT)	OR	ON	ON	2023/05/06 01:59 PM
L52	1	((encrypt\$ WITH packet) SAME (preference NEAR list)).clm.	(US-PGPUB; USPAT)	OR	ON	ON	2023/06/12 08:48 AM
L53	3	(((encrypt\$ SAME modif\$) WITH packet) SAME preference).clm.	(US-PGPUB; USPAT)	OR	ON	ON	2023/06/12 08:49 AM

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Ref #	Hits	Search Query	DBs	Default Operator	Plurals	British Equivalents	Time Stamp
N1	9057	726/26.ccls.	(US-PGPUB; USPAT)	OR	ON	ON	2023/06/12 08:45 AM
N2	34663	(G06F21/6263 H04L63/0421,0428).cpc	(US-PGPUB; USPAT)	OR	ON	ON	2023/06/12 08:46 AM

N3	1	((1 2) AND ((encrypt\$ WITH packet) SAME (preference NEAR list)).clm.	(US-PGPUB; USPAT)	OR	ON	ON	2023/06/12 08:47 AM
N4	0	((encrypt\$ WITH packet) SAME (preference NEAR list)).clm. NOT 3	(US-PGPUB; USPAT)	OR	ON	ON	2023/06/12 08:48 AM
N5	3	(((encrypt\$ SAME modif\$) WITH packet) SAME preference).clm.	(US-PGPUB; USPAT)	OR	ON	ON	2023/06/12 08:50 AM

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- ☐ **IoTivity Packet Parser for Encrypted Messages in Internet of Things**
- Hyeonah Jung; Hyungjoon Koo; Jaehoon Paul Jeong
- 2022 24th International Conference on Advanced Communication Technology (ICACT)
- Year: 2022 | Conference Paper | Publisher: IEEE

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IoTivity Packet Parser for Encrypted Messages in Internet of Things

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- ☐ **Adaptive Wavelet Packet Based Audio Steganography using Data History**
- Parul Shah; Pranali Choudhari; Suresh Sivaraman
- 2008 IEEE Region 10 and the Third International Conference on Industrial and Information Systems
- Year: 2008 | Conference Paper | Publisher: IEEE
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- ☐ **A Modified Approach to Decrease Packet Loss Ratio and PDR in AODV Using Fuzzy Technique**
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- 2022 10th International Conference on Reliability, Infocom Technologies and Optimization (Trends and Future Directions) (ICRITO)
- Year: 2022 | Conference Paper | Publisher: IEEE

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IEEE Internet of Things Journal

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☐ FPGA Implementation of a Modified SMS4-BSK Cipher with Novel Efficient XOR Gate Design

M Babu; G A Sathish Kumar; K Sivachandar; K Kannan; J Gurumurthy; V Sudharsanam; P Sathiyaraj

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☐ BIT-TRAPS: Building Information-Theoretic Traffic Privacy into Packet Streams

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Modified Protocols for Internet Key Exchange (IKE) Using Public Encryption and Signature Keys

V. Nagalakshmi; I. Ramesh Babu; P.S. Avadhani

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Internet Traffic Classification Using the Index of Variability

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☐ Network flow watermarking method based on centroid matching of interval group

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☐ Multilayer Consensus ECC-Based Password Authenticated Key-Exchange (MCEPAK) Protocol for Smart Grid System

Hasen Nicanfar; Victor C. M. Leung

IEEE Transactions on Smart Grid

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Energy-Efficient and Secure Communication Toward UAV Networks

Teng Li; Jiawei Zhang; Mohammad S. Obaidat; Chi Lin; Yangxu Lin; Yulong Shen; Jianfeng Ma

IEEE Internet of Things Journal

Year: 2022 | Volume: 9, Issue: 12 | Journal Article | Publisher: IEEE

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Single-clock-cycle, multilayer encryption algorithm for single-channel IoT communications

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IEEE Communications Magazine

Year: 2018 | Volume: 56, Issue: 2 | Magazine Article | Publisher: IEEE

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EnNetForens: An Efficient Proactive Approach For Network Forensic

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Ruixiao Feng; Taiwei Hu; Xiajin Jia
2022 14th International Conference on Computer Research and Development (ICCRD)
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- ☐ **Bio-Inspired, Host-based Firewall** 
Lanier Watkins; James Ballard; Kevin Hamilton; Jay Chow; Aviel Rubin; William H. Robinson;
Cleon Davis
2020 IEEE 23rd International Conference on Computational Science and Engineering (CSE)
Year: 2020 | Conference Paper | Publisher: IEEE

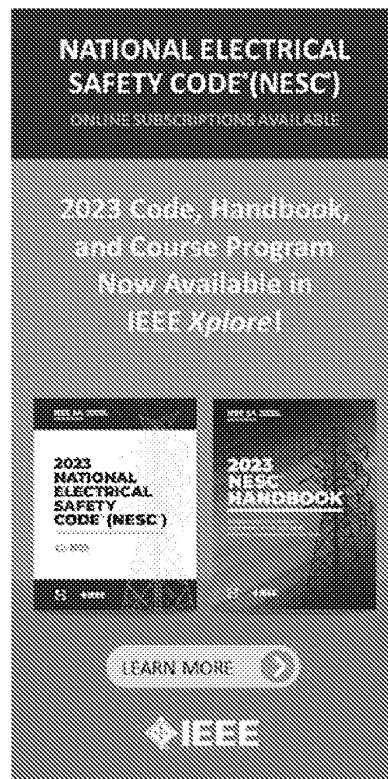
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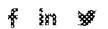


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First Named Inventor/Applicant Name:	Yoseph KOREN
Customer Number:	49443
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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Inventor(s):	Yoseph KOREN et al.	Examiner:	Amare F. TABOR
Serial No.:	18/095,238	Group Art Unit:	2434
Filed:	January 10, 2023	Confirmation No.:	2028
Title:	SYSTEM AND METHOD FOR DYNAMIC MANAGEMENT OF PRIVATE DATA		

AMENDMENT

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

Sir/Madam:

This Amendment is being filed in response to the Office Action mailed May 17, 2023 by the United States Patent and Trademark Office in connection with the above-identified Application. A response to the May 17, 2023 Office Action is due August 17, 2023. Accordingly, this paper is being timely filed.

Kindly amend the above-identified application as follows:

Amendments to the Claims are reflected in the listing of claims which begins on page **2** of this paper.

Remarks/Arguments begin on page **9** of this paper.

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SERIAL NO.: 18/095,238
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AMENDMENTS TO THE CLAIMS

Please amend claims 1 and 12.

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

Listing of Claims:

1. **(Currently Amended)** A method of dynamic management of encrypted data during communication between a remote server and a user's device, the method comprising:
 - receiving, by the remote server, a communication comprising encrypted data packets;
 - determining, by the remote server, a content of at least one data packet of the communication in accordance with characteristics of the at least one data packet, and wherein the content of the at least one data packet is not decrypted by the remote server, and the determination of the content is performed by the remote server in real time during a communication session between the remote server and the user's device;
 - storing, by the remote server, a preference list;
 - determining, by the remote server, based on a comparison of the determined content, whether to modify the at least one data packet, and if so, modifying the at least one data packet; and
 - sharing, by the remote server, the modified communication.
2. (Original) The method of claim 1, wherein determining a content of the at least one data packet comprises determining at least one data type of the at least one data packet of the communication in accordance with characteristics of the at least one data packet, and wherein determining whether to modify the at least one data packet is based on the determined data type.
3. (Original) The method of claim 2, wherein the preference list includes a list of forbidden and/or allowed data packet types for sharing during communication.
4. (Original) The method of claim 1, further comprising:

determining, by the remote server, at least one communication data pattern in accordance with a behavior range of the data packet, and wherein the content of the at least one data packet is not decrypted by the remote server, and the determination of the at least one communication data pattern is performed by the remote server in real time during a communication session between the remote server and the user's device;

wherein the determining whether to modify the at least one data packet, by the remote server, is further based on a comparison of the determined data pattern and the preference list, whether to modify the at least one data packet, and if so, modifying the at least one data packet; and

wherein the preference list includes a list of forbidden and/or allowed data packet types and communication data patterns for sharing during communication.

5. (Original) The method of claim 1, wherein the modification of the communication is selected from the group consisting of: blocking the at least one data packet that is not compatible with the preference list, data nullification, data randomization, content modification, change of encoding, change of file template, change of header, change of footer, addition of a predetermined data packet, and encryption.
6. (Original) The method of claim 2, wherein the data type of the at least one data packet is determined based at least in part on metadata of at least one data packet of the communication.
7. (Original) The method of claim 4, wherein the data pattern is determined based on communication behavior, wherein the communication behavior consists of data packet frequency, data packet size, data packet speed, data packet count, data packet ratio compared to other data type flow, data packet repetition, or data packet order.
8. (Original) The method of claim 1, further comprising, the remote server maintaining communication between the remote server and the user's device by sharing of the modified communication.

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9. (Original) The method of claim 1, wherein the data type is determined based on data packet characteristics selected from a group consisting of: data packet header, data packet footer, version number, IP (Internet Protocol) address, HTTPS (HyperText Transfer Protocol Secure), file extension, encryption method, encoding method, keywords, driver, and communication protocol.
10. (Original) The method of claim 1, wherein the remote server is a gatekeeper server.
11. (Original) The method of claim 2, further comprising, the remote server issuing an alert to the user device based on the comparison of the determined data type and the preference list.
12. **(Currently Amended)** A method of dynamic management of encrypted data during communication between a remote server and a user's device, the method comprising:
 - receiving, by the remote server, a communication comprising encrypted data packets;
 - determining, by the remote server, at least one communication data pattern of at least one data packet of the communication in accordance with a behavior range of the data packet, and wherein content of the at least one data packet is not decrypted by the remote server, and the determination of the at least one data pattern is performed by the remote server in real time during a communication session between the remote server and the user's device;
 - storing, by the remote server, a preference list;
 - determining, by the remote server, based on a comparison of the determined data pattern and the preference list, whether to modify the at least one data packet, and if so, modifying the at least one data packet; and
 - sharing, by the remote server, the modified communication.
13. (Original) The method of claim 12, wherein the preference list includes a list of forbidden and/or allowed communication data patterns for sharing during communication.
14. (Original) The method of claim 12, wherein the modification of the communication is selected from the group consisting of: blocking the at least one data packet that is not compatible with the preference list, data nullification, data randomization, content

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modification, change of encoding, change of file template, change of header, change of footer, addition of a predetermined data packet, and encryption.

15. (Original) The method of claim 12, wherein the communication data pattern of the at least one data packet is determined based on communication behavior, wherein the communication behavior consists of data packet frequency, data packet size, data packet speed, data packet count, data packet ratio compared to other data type flow, data packet repetition, or data packet order.
16. (Original) The method of claim 12, further comprising, the remote server maintaining communication between the remote server and the user's device by sharing of the modified communication.
17. (Original) The method of claim 12, wherein the remote server is a gatekeeper server.
18. (Original) The method of claim 12, further comprising, the remote server issuing an alert to the user device based on the comparison of the determined data pattern and the preference list.
19. (Original) A system for dynamic management of encrypted data during communication between a remote server and a user's device, the system comprising:
 - a memory;
 - a communication data type database comprising at least one communication data type corresponding to sharing of at least one data packet with the user's device;
 - a preference list database,
 - a communication module configured to allow communication between the remote server and the at least one user's device, and
 - a processor, coupled to the preference list database, wherein the processor is configured to instruct the remote server to:
 - determine a content of at least one data packet of the communication in accordance with characteristics of the at least one data packet, and wherein the content of the at least one data packet is not decrypted by the remote server, and the determination of the content

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is performed by the remote server in real time during a communication session between the remote server and the user's device,

based on a comparison of the determined content and the preference list, determine whether to modify the at least one data packet, and if so, modify the at least one data packet; and

share the modified communication.

20. (Original) The system of claim 19, wherein determining a content of the at least one data packet comprises determining at least one data type of the at least one data packet of the communication in accordance with characteristics of the at least one data packet, and wherein determining whether to modify the at least one data packet is based on the determined data type.
21. (Original) The system of claim 20, wherein the preference list database comprises a list of forbidden and/or allowed data packet types for sharing during communication.
22. (Original) The system of claim 19, wherein, the processor is further configured to determine at least one communication data pattern in accordance with a behavior range of the data packet, and wherein the content of the at least one data packet is not decrypted by the remote server, and the determination of the at least one communication data pattern is performed by the remote server in real time during a communication session between the remote server and the user's device; and wherein the determining whether to modify the at least one data packet, by the remote server, is further based on a comparison of the determined data pattern and the preference list, whether to modify the at least one data packet, and if so, modifying the at least one data packet; and wherein the preference list includes a list of forbidden and/or allowed data packet types and communication data patterns for sharing during communication.
23. (Original) The system of claim 20, wherein the data type of the at least one data packet is determined based at least in part on metadata of at least one data packet of the communication

24. (Original) The system of claim 22, wherein the at least one communication data pattern is determined in accordance with a behavior range of the data packet, wherein the behavior range is selected from a group consisting of: data packet frequency, data packet size, data packet speed, data packet count, data packet ratio compared to other data type flow, data packet repetition, and data packet order.
25. (Original) The system of claim 19, wherein the modification of the communication is selected from the group consisting of blocking the at least one data packet that is not compatible with the preference list, data nullification, data randomization, content modification, change of encoding, change of file template, change of header, change of footer, addition of a predetermined data packet and encryption.
26. (Original) The system of claim 19, wherein the remote server is configured to maintain communication between the remote server and the user's device by sharing of the modified communication.
27. (Original) The system of claim 20, wherein the data type is determined based on data packet characteristics selected from a group consisting of: data packet header, data packet footer, version number, IP (Internet Protocol) address, HTTPS (HyperText Transfer Protocol Secure), file extension, encryption method, encoding method, keywords, driver, and communication protocol.
28. (Original) The system of claim 19, wherein the remote server is a gatekeeper server.
29. (Original) The system of claim 20, wherein the processor is configured to issue an alert to the user device based on the comparison of the determined data type and the preference list.
30. (Original) The system of claim 22, wherein the preference list includes a list of forbidden and/or allowed data packet types and communication data patterns for sharing during communication, and wherein, if the at least one data type of the at least one data packet is included in the list of forbidden and/or allowed data packets, the processor is configured to determine whether to modify the at least one data packet based on the determined data type

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and the preference list without performing a comparison of a determined data pattern and the preference list.

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REMARKS

The present response is intended to be fully responsive to all points of objection and/or rejection raised by the Examiner and is believed to place the application in condition for allowance.

Applicants assert that the present invention is new, non-obvious and useful. Prompt consideration and allowance of the claims is respectfully requested.

Status of Claims

Claims 1-30 are pending.

Claims 1 and 12 have been objected to.

Claims 1-30 have been rejected.

Claims 1 and 12 have been amended.

Applicants respectfully assert that the amendments to the claims add no new matter.

Double Patenting Rejections

In the Office Action, the Examiner rejected claims 1, 12 and 19 under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1, 9 and 17 of U.S. Patent No. 11,106,824 in view of Gunter et al. (U.S. Patent No. 6,751,728).

Applicants herewith submit an electronic Terminal Disclaimer disclaiming the term of any patent granted from this application beyond the term of US Patent No. 11,106,824.

Allowable Subject Matter

In the Office Action, the Examiner stated that claims 1-30 would be allowable if the double patenting rejection is overcome.

Applicants herewith submit an electronic Terminal Disclaimer.

Claim Objections

In the Office Action, the Examiner objected to claims 1 and 12 because of alleged informalities.

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Claims 1 and 12 have been amended by adding a comma as suggested by the Examiner. Accordingly, Applicants request withdrawal of the objection.

Conclusion

In view of the foregoing amendments and remarks, Applicants assert that the pending claims are allowable. Their favorable reconsideration and allowance is respectfully requested.

Should the Examiner have any question or comment as to the form, content or entry of this Amendment, the Examiner is requested to contact the undersigned at the telephone number below. Similarly, if there are any further issues yet to be resolved to advance the prosecution of this application to issue, the Examiner is requested to telephone the undersigned counsel.

To the extent that there are any fees associated with this filing that are due but are not paid or are not able to be paid by a credit card mentioned elsewhere in this document, Applicants authorize the U.S. Patent and Trademark Office to charge any such fees to deposit account No. 60-2041.

Respectfully submitted,

/Brendan Mee/

Brendan S. Mee
Attorney/Agent for Applicant(s)
Registration No. 43,391

Dated: June 1, 2023

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Fax: (646) 878-0801

Doc Code: DIST.E.FILE Document Description: Electronic Terminal Disclaimer - Filed		PTO/SB/26 U.S. Patent and Trademark Office Department of Commerce	
Electronic Petition Request	TERMINAL DISCLAIMER TO OBVIATE A DOUBLE PATENTING REJECTION OVER A "PRIOR" PATENT		
Application Number	18095238		
Filing Date	10-Jan-2023		
First Named Inventor	Yoseph KOREN		
Attorney Docket Number	P-566702-US2		
Title of Invention	SYSTEM AND METHOD FOR DYNAMIC MANAGEMENT OF PRIVATE DATA		
☒ Filing of terminal disclaimer does not obviate requirement for response under 37 CFR 1.111 to outstanding Office Action ☒ This electronic Terminal Disclaimer is not being used for a Joint Research Agreement.			
Owner		Percent Interest	
Privacy Rating LTD		100%	
The owner(s) with percent interest listed above in the instant application hereby disclaims, except as provided below, the terminal part of the statutory term of any patent granted on the instant application which would extend beyond the expiration date of the full statutory term of prior patent number(s) 11106824 as the term of said prior patent is presently shortened by any terminal disclaimer. The owner hereby agrees that any patent so granted on the instant application shall be enforceable only for and during such period that it and the prior patent are commonly owned. This agreement runs with any patent granted on the instant application and is binding upon the grantee, its successors or assigns. In making the above disclaimer, the owner does not disclaim the terminal part of the term of any patent granted on the instant application that would extend to the expiration date of the full statutory term of the prior patent, "as the term of said prior patent is presently shortened by any terminal disclaimer," in the event that said prior patent later: - expires for failure to pay a maintenance fee; - is held unenforceable; - is found invalid by a court of competent jurisdiction; - is statutorily disclaimed in whole or terminally disclaimed under 37 CFR 1.321; - has all claims canceled by a reexamination certificate; - is reissued; or - is in any manner terminated prior to the expiration of its full statutory term as presently shortened by any terminal disclaimer. ☒ Terminal disclaimer fee under 37 CFR 1.20(d) is included with Electronic Terminal Disclaimer request.			

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THIS PORTION MUST BE COMPLETED BY THE SIGNATORY OR SIGNATORIES I certify, in accordance with 37 CFR 1.4(d)(4) that I am:	
☒ An attorney or agent registered to practice before the Patent and Trademark Office who is of record in this application Registration Number <u>43391</u>	
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☐ A joint inventor; I certify that I am authorized to sign this submission on behalf of all of the inventors as evidenced by the power of attorney in the application	
☐ A joint inventor; all of whom are signing this request	
Signature	/Brendan Mee/
Name	Brendan Mee

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

Electronic Patent Application Fee Transmittal				
Application Number:		18095238		
Filing Date:		10-Jan-2023		
Title of Invention:		SYSTEM AND METHOD FOR DYNAMIC MANAGEMENT OF PRIVATE DATA		
First Named Inventor/Applicant Name:		Yoseph KOREN		
Filer:		Brendan S. Mee/Mark Soffer		
Attorney Docket Number:		P-566702-US2		
Filed as Small Entity				
Filing Fees for Utility under 35 USC 111(a)				
Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Basic Filing:				
STATUTORY OR TERMINAL DISCLAIMER	2814	1	170	170
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Extension-of-Time:				
Miscellaneous:				
Total in USD (\$)				170

Doc Code: DISQ.E.FILE
Document Description: Electronic Terminal Disclaimer – Approved

Application No.: 18095238

Filing Date: 10-Jan-2023

Applicant/Patent under Reexamination: KOREN

Electronic Terminal Disclaimer filed on June 1, 2023

☒ APPROVED

This patent is subject to a terminal disclaimer

☐ DISAPPROVED

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

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Electronic Acknowledgement Receipt	
EFS ID:	48084668
Application Number:	18095238
International Application Number:	
Confirmation Number:	2028
Title of Invention:	SYSTEM AND METHOD FOR DYNAMIC MANAGEMENT OF PRIVATE DATA
First Named Inventor/Applicant Name:	Yoseph KOREN
Customer Number:	49443
Filer:	Brendan S. Mee/Mark Soffer
Filer Authorized By:	Brendan S. Mee
Attorney Docket Number:	P-566702-US2
Receipt Date:	01-JUN-2023
Filing Date:	10-JAN-2023
Time Stamp:	08:42:48
Application Type:	Utility under 35 USC 111(a)

Payment information:

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Payment was successfully received in RAM	\$170
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1	Terminal Disclaimer-Filed (Electronic)	eTerminal-Disclaimer.pdf	41242	no	2
			ce451a58c70c1e967812f91ab6d741d5adfb5b5bf		
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2	Fee Worksheet (SB06)	fee-info.pdf	38072	no	2
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PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875				Application or Docket Number 18/095,238		Filing Date 01/10/2023		☐ To be Mailed		
ENTITY: ☐ LARGE ☒ SMALL ☐ MICRO										
APPLICATION AS FILED - PART I										
		(Column 1)	(Column 2)							
FOR		NUMBER FILED	NUMBER EXTRA		RATE (\$)		FEE (\$)			
☐ BASIC FEE (37 CFR 1.16(a), (b), or (c))		N/A	N/A		N/A					
☐ SEARCH FEE (37 CFR 1.16(k), (l), or (m))		N/A	N/A		N/A					
☐ EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))		N/A	N/A		N/A					
TOTAL CLAIMS (37 CFR 1.16(j))		minus 20 =	*		x \$40 =					
INDEPENDENT CLAIMS (37 CFR 1.16(h))		minus 3 =	*		x \$192 =					
☐ APPLICATION SIZE FEE (37 CFR 1.16(s))		If the specification and drawings exceed 100 sheets of paper, the application size fee due is \$310 (\$155 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).								
☐ MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))										
* If the difference in column 1 is less than zero, enter "0" in column 2.					TOTAL					
APPLICATION AS AMENDED - PART II										
		(Column 1)	(Column 2)		(Column 3)					
AMENDMENT	06/01/2023	CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE (\$)	ADDITIONAL FEE (\$)			
	Total (37 CFR 1.16(j))	* 30	Minus	** 30	= 0	x \$40 =	0			
	Independent (37 CFR 1.16(h))	* 3	Minus	*** 3	= 0	x \$192 =	0			
	☐ Application Size Fee (37 CFR 1.16(s))									
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))									
						TOTAL ADD'L FEE	0			
AMENDMENT		CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE (\$)	ADDITIONAL FEE (\$)			
	Total (37 CFR 1.16(j))	*	Minus	**	=	x \$0 =				
	Independent (37 CFR 1.16(h))	*	Minus	***	=	x \$0 =				
	☐ Application Size Fee (37 CFR 1.16(s))									
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))									
						TOTAL ADD'L FEE				
* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.						LIE				
** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".						/DORIS M KING/				
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18/095,238	01/10/2023	Yoseph KOREN	P-566702-US2

CONFIRMATION NO. 2028

PUBLICATION NOTICE

49443
Pearl Cohen Zedek Latzer Baratz LLP
7 Times Square, 19th Floor
New York, NY 10036



Date Mailed: 05/25/2023

Title:SYSTEM AND METHOD FOR DYNAMIC MANAGEMENT OF PRIVATE DATA

Publication No.US-2023-0161909-A1

Publication Date:05/25/2023

NOTICE OF PUBLICATION OF APPLICATION

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

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

The publication process established by the Office does not provide for mailing a copy of the publication to the applicant. A copy of the publication may be obtained from the Office upon payment of the application 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.

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
18/095,238	01/10/2023	Yoseph KOREN	P-566702-US2	2028
49443	7590	05/17/2023		
Pearl Cohen Zedek Latzer Baratz LLP			EXAMINER	
7 Times Square, 19th Floor			TABOR, AMARE F	
New York, NY 10036				
			ART UNIT	PAPER NUMBER
			2434	
			NOTIFICATION DATE	DELIVERY MODE
			05/17/2023	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):

Arch-USPTO@PearlCohen.com
USPTO@PearlCohen.com

DETAILED ACTION

Notice of Pre-AIA or AIA Status

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

Priority

Acknowledgment is made of applicant's claim for foreign priority under 35 U.S.C. 119

(a)-(d). The certified copy has been filed in parent Application No. IL251683, filed on 04/09/2017.

- CON of US Appl. No. 17/406,272, which is US Appl. 16/603,252 (parent).

Claim Status:

- *Claims 1-30 filed on 01/10/2023 are presented for examination.*

Claim Objections

Claims 1 & 12 objected to because of the following informalities:

- *please add comma after "by remote server_z" in the first limitation.*

Appropriate correction is required.

Double Patenting

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

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) or 1.321(d) may be used to overcome an actual or provisional rejection based on nonstatutory double patenting provided the reference application or patent either is shown to be commonly owned with the examined application, or claims an invention made as a result of activities undertaken within the scope of a joint research agreement. See MPEP § 717.02 for applications subject to examination under the first inventor to file provisions of the AIA as explained in MPEP § 2159. See MPEP § 2146 *et seq.* for applications not subject to examination under the first inventor to file provisions of the AIA. A terminal disclaimer must be signed in compliance with 37 CFR 1.321(b).

The filing of a terminal disclaimer by itself is not a complete reply to a nonstatutory double patenting (NSDP) rejection. A complete reply requires that the terminal disclaimer be accompanied by a reply requesting reconsideration of the prior Office action. Even where the NSDP rejection is provisional the reply must be complete. See MPEP § 804, subsection I.B.1. For a reply to a non-final Office action, see 37 CFR 1.111(a). For a reply to final Office action, see 37 CFR 1.113(c). A request for reconsideration while not provided for in 37 CFR 1.113(c) may be filed after final for consideration. See MPEP §§ 706.07(e) and 714.13.

The USPTO Internet website contains terminal disclaimer forms which may be used. Please visit www.uspto.gov/patent/patents-forms. The actual filing date of the application in which the form is filed determines what form (e.g., PTO/SB/25, PTO/SB/26, PTO/AIA/25, or PTO/AIA/26) should be used. A web-based eTerminal Disclaimer may be filled out completely online using web-screens. An eTerminal Disclaimer that meets all requirements is auto-processed and approved immediately upon submission. For more information about eTerminal Disclaimers, refer to www.uspto.gov/patents/apply/applying-online/eterminal-disclaimer

Claims 1, 12 & 19 rejected on the ground of non-statutory double patenting as being unpatentable over claim 1, 9 & 17 of U.S. Patent No. 11106824 B2 in view of Gunter et al. (US 6751728 B1). The independent claims of the instant application recite all limitations of the patented claims, except the encrypted packet feature. However, Gunter disclose communicating encrypted packets [*see Abstract, Encrypted Packet 124 (FIG.3)*]. Therefore, it would have been obvious before the effective filing date of the claimed invention to a person having ordinary skill in the art to modify the instant application with the

packet encryption teaching of Gunter to enhance and secure communication to an external networked network performed through access point of an intranet.

- The dependent claims are rejected due to their dependence.

please see the claims-comparison table below.

Instant Application	U.S. Patent No. 11106824 B2
1. A method of dynamic management of encrypted data during communication between a remote server and a user's device, the method comprising: receiving, by the remote server a communication comprising encrypted data packets; determining, by the remote server, a content of at least one data packet of the communication in accordance with characteristics of the at least one data packet, and wherein the content of the at least one data packet is not decrypted by the remote server, and the determination of the content is performed by the remote server in real time during a communication session between the remote server and the user's device; storing, by the remote server, a preference list; determining, by the remote server, based on a comparison of the determined content, whether to modify the at least one data packet, and if so, modifying the at least one data packet; and sharing, by the remote server, the modified communication.	1. A method of dynamic management of private data during communication between a remote server and a user's device, the method comprising: receiving, by the user's device, a request for retrieval of at least one data packet from the user's device, wherein the user's device is configured to provide a response corresponding to the received request; determining, by the remote server, at least one communication data type of the at least one data packet corresponding to the received request, wherein the at least one communication data type is determined in accordance with characteristics of the communication data packet, and wherein the content of the at least one data packet is not read by the remote server for continued operation by the user's device in real time during communication between the remote server and the user's device; receiving, by the user's device, a privacy preference for the user's device, wherein the privacy preference comprises a list of allowed data packet communication types for sharing during communication; modifying data packets corresponding to requests for sharing of responses that are not compatible with the received privacy preference; and maintaining communication between the remote server and the user's device, with sharing of the modified data packets.

12. A method of dynamic management of encrypted data during communication between a remote server and a user's device, the method comprising: receiving, by the remote server a communication comprising encrypted data packets; determining, by the remote server, at least one communication data pattern of at least one data packet of the communication in accordance with a behavior range of the data packet, and wherein content of the at least one data packet is not decrypted by the remote server, and the determination of the at least one data pattern is performed by the remote server in real time during a communication session between the remote server and the user's device; storing, by the remote server, a preference list; determining, by the remote server, based on a comparison of the determined data pattern and the preference list, whether to modify the at least one data packet, and if so, modifying the at least one data packet; and sharing, by the remote server, the modified communication.	9. A method of dynamic management of private data during communication between a remote server and a user's device, the method comprising: receiving, by the user's device, a request for retrieval of at least one data packet from the user's device, wherein the user's device is configured to provide a response corresponding to the received request; determining, by the remote server, at least one communication data pattern corresponding to the received request, wherein the at least one communication data pattern is determined in accordance with a behavior range of the communication data packet, and wherein the content of the at least one data packet is not read by the remote server for continued operation by the user's device in real time during communication between the remote server and the user's device; receiving, by the user's device, a privacy preference for the user's device, wherein the privacy preference comprises a list of allowed data patterns for sharing during communication; modifying data packets corresponding to requests for sharing of responses and corresponding data patterns that are not compatible with the received privacy preference; and maintaining communication between the remote server and the user's device, with sharing of the modified data packets.
19. A system for dynamic management of encrypted data during communication between a remote server and a user's device, the system comprising: a memory; a communication data type database comprising at least one communication data type corresponding to sharing of at least one data packet with the user's device; a preference list database, a communication module configured to allow communication between the remote server and the at least one user's device, and a processor, coupled to the preference list database, wherein the processor is configured to instruct the remote server to: determine a content of at least one data packet of the communication in accordance with characteristics of the at least one data	17. A system for dynamic management of private data during communication between a remote server and at least one user's device, the system comprising: a memory; a communication data type database, comprising at least one communication data type corresponding to sharing of at least one data packet from the user's device; a privacy preference database, comprising a list of allowed types of data packets for sharing during communication with the at least one user's device; a communication module, to allow communication between the remote server and the at least one user's device; and a processor, coupled to a response database and to the privacy preference database, wherein the processor is configured to instruct the remote

packet, and wherein the content of the at least one data packet is not decrypted by the remote server, and the determination of the content is performed by the remote server in real time during a communication session between the remote server and the user's device, based on a comparison of the determined content and the preference list, determine whether to modify the at least one data packet, and if so, modify the at least one data packet; and share the modified communication.	server to determine at least one data type for sharing of data packet that is compatible with the list of allowed patterns of data packets for sharing, and wherein the at least one data type is determined in accordance with characteristics of the communication data packet, and wherein the content of the at least one data packet is not read by the remote server for continued operation by the user's device in real time during communication between the remote server and the user's device.
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Allowable Subject Matter

Claims 1-30 will be allowed when the above non-statutory double patenting rejection is overcome; i.e., terminal disclaimer is filed.

The following is a statement of reasons for the indication of allowable subject matter:

Regarding the independent claims (1, 12 & 19), With examiner's thorough search the closest prior arts found are Gunter et al. (US 6751728 B1) and Ahmed (US 8543808 B2); wherein:

Gunter et al. is directed to A method and system for network communication efficiently transmits encrypted packets from a sending host on an external network to a receiving host on an intranet through a network access point (NAP) of the intranet; wherein: A packet constructed with the external network address of the NAP as the destination address of the packet; The intranet address of the receiving host is also included in the packet in the non-encrypted form and is used in the calculation of the cryptographic hash or the like that is included in the packet for authentication purposes; The encrypted packet is then routed to the NAP through the external network; When the NAP receives the packet, it strips the intranet address of the receiving host from the packet and uses that address to replace the original destination address in the packet; The NAP then forwards the modified packet to the receiving

host. Because the NAP does not have to decrypt the packet, encrypted packets can quickly go through the NAP; and,

Ahmed et al. is directed to A method of operating a device for processing packets associated with communication through a secured connection between devices; wherein The endpoint shares with the trusted intermediary device connection information that enables the intermediary device to access packets transmitted through the secured connection; the intermediary device may modify authenticated packets, such as to perform network address translation, without disrupting the underlying secured connection; and the intermediary device may use the security information to read encrypted information and perform functions such as network traffic monitoring or filtering of unwanted network traffic..

However, Gunter et al. and Ahmed et al. either alone or in combination fail to teach or suggest A method/system dynamic management of encrypted data during communication between a remote server and a user's device, that determines a content of an encrypted data packet of the communication in accordance with characteristics of the at least one data packet, and wherein the content of the at least one data packet is not decrypted, and the determination of the content is performed by the remote server in real time during a communication session between the remote server and the user's device with these and other claim elements as a whole.

- Claims 2-11, 13-18 & 20-30 are indicated as allowable based on their dependence.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. (See PTO—892).

For example, US 7706314 B2 directed to preserving TCP header data contained in packets prior to IPsec encryption and making the TCP header data available to PEP applications. For example, TCP header data is identified in a packet that conforms to the TCP and a copy of the TCP header data is generated. Encrypted packet data is generated by encrypting at least a portion of the packet using IPsec. For example, the TCP header data and payload may be encrypted to generate the encrypted packet data. A modified copy of the TCP header data is generated by modifying length data contained in the copy of the TCP header data to reflect a length of at least the encrypted packet data. A new packet is generated that includes the modified copy of the TCP header data and the encrypted packet data.

Contact Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to AMARE F TABOR whose telephone number is (571) 270-3155. The examiner can normally be reached **Mon.—Fri.: 8:00 AM to 5:00 PM.**

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, KAMBIZ ZAND can be reached on (571) 272-3811. 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.

/AMARE F TABOR/
Primary Examiner, Art Unit 2434

<i>Notice of References Cited</i>	Application/Control No. 18/095,238		Applicant(s)/Patent Under Reexamination KOREN et al.	
	Examiner AMARE F TABOR		Art Unit 2434	Page 1 of 1

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	CPC Classification	US Classification
*	A	US-6751728-B1	06-2004	Gunter; David V.	H04L61/2564	713/153
*	B	US-6970446-B2	11-2005	Krischer; Mark	H04L63/0428	370/466
*	C	US-7548532-B2	06-2009	Krischer; Mark	H04L65/764	370/392
*	D	US-7706314-B2	04-2010	Nedelchev; Plamen	H04L63/0428	713/161
*	E	US-7797411-B1	09-2010	Guruswamy; Kowsik	G06F15/173	709/229
*	F	US-7996670-B1	08-2011	Krishna; Suresh	H04L63/0485	713/153
*	G	US-8266267-B1	09-2012	Guruswamy; Kowsik	G06F15/173	709/229
*	H	US-8543808-B2	09-2013	Ahmed; Khaja E.	H04L63/02	713/153
*	I	US-9609025-B1	03-2017	Betzler; Boas	H04L63/0245	1/1
*	J	US-20170118638-A1	04-2017	Zhang; Qiang	H04W12/068	1/1
	K					
	L					
	M					

FOREIGN PATENT DOCUMENTS

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

NON-PATENT DOCUMENTS

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

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

U.S. Patent and Trademark Office
PTO-892 (Rev. 01-2001)

Notice of References Cited

Part of Paper No. 20230503

<i>Search Notes</i> 	Application/Control No. 18/095,238	Applicant(s)/Patent Under Reexamination KOREN et al.
	Examiner AMARE F TABOR	Art Unit 2434

CPC - Searched*		
Symbol	Date	Examiner
G06F21/6263 H04L63/0421,0428	05/05/2023	

CPC Combination Sets - Searched*		
Symbol	Date	Examiner

US Classification - Searched*			
Class	Subclass	Date	Examiner
726	26	05/05/2023	aft

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

Search Notes		
Search Notes	Date	Examiner
Inventor/Assignee Name Search	05/05/2023	aft
USPC, CPC & Keyword Search	05/05/2023	aft

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

/A.F.T/ Primary Examiner, Art Unit 2434	
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PE2E SEARCH - Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	British Equivalents	Time Stamp
L1	0	"18095238"	(US-PGPUB; USPAT)	OR	ON	ON	2023/05/04 12:44 PM
L2	1	"17406272"	(US-PGPUB; USPAT)	OR	ON	ON	2023/05/04 12:44 PM
L3	1	"11106824" .pn.	(US-PGPUB; USPAT)	OR	ON	ON	2023/05/04 12:45 PM
L4	0	(Koren-Yoseph Wasserman-Yehonatan).in.	(US-PGPUB; USPAT)	OR	ON	ON	2023/05/04 12:46 PM
L5	5	(Privacy-Rating-Ltd\$ Privacy-Rating Privacy-Rating-\$).as.	(US-PGPUB; USPAT)	OR	ON	ON	2023/05/04 12:47 PM
L6	1	"11023617".pn.	(US-PGPUB; USPAT)	OR	ON	ON	2023/05/04 12:48 PM
L7	2	3 6	(US-PGPUB; USPAT)	OR	ON	ON	2023/05/04 12:50 PM
L8	1	(3 6) AND (encrypt\$ SAME packet)	(US-PGPUB; USPAT)	OR	ON	ON	2023/05/04 12:56 PM
L10	1	(3 6) AND (encrypt\$ AND packet)	(US-PGPUB; USPAT)	OR	ON	ON	2023/05/04 12:57 PM
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L13	22693	(G06F21/6263 H04L63/0421,0428).cpc	(US-PGPUB; USPAT)	OR	ON	ON	2023/05/04 01:43 PM

L14	1116	. AND @Ad<"20170409" (12 13) AND ((modif\$7 AND encrypt\$) WITH packet)	(US-PGPUB; USPAT)	OR	ON	ON	2023/05/04 04:00 PM
L15	97	(14) AND (((modif\$7 AND encrypt\$) WITH packet).ti. ((modif\$7 AND encrypt\$) WITH packet).ab. ((modif\$7 AND encrypt\$) WITH packet).clm.)	(US-PGPUB; USPAT)	OR	ON	ON	2023/05/04 04:00 PM
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L18	5	16 NOT 17	(US-PGPUB; USPAT)	OR	ON	ON	2023/05/04 04:02 PM
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L20	1	"6751728" .pn. AND modif\$ WITH packet	(US-PGPUB; USPAT)	OR	ON	ON	2023/05/04 04:09 PM
L21	62	("5548649" "5793763" "5845267" "6061794" "6154839" "6321336").pn. OR ("6751728").urpn. AND (PGPB USPT USOC).dbnm.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2023/05/04 04:10 PM
L22	62	21 AND @Ad<"20170409"	(US-PGPUB; USPAT)	OR	ON	ON	2023/05/04 04:10 PM
L23	18	22 AND modif\$ WITH packet	(US-PGPUB; USPAT)	OR	ON	ON	2023/05/04 04:11 PM
L24	10	22 AND (encrypt\$ AND modif\$) WITH packet	(US-PGPUB; USPAT)	OR	ON	ON	2023/05/04 04:11 PM
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L30	20	("6965992" "7231027"	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2023/05/06

		"8724553" "9477836" "9609025" "10277614" "10348715" "20100058054" "20120005720" "20120222083" "20130305044" "20130318347" "20140259147" "20140331054" "20170041297" "20170098215" "20170118638" "20180359811" "20190034826" "20190149523").pn. OR ("11106824").urpn. AND (PGPB USPT USOC).dbnm.	USOCR)				01:26 PM
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L36	4	L35 AND (encrypt\$	(US-PGPUB; USPAT)	OR	ON	ON	2023/05/06

L37	56	WITH packet) ("6751728").urpn. AND (PGPB USPT USOC).dbnm.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	01:30 PM 2023/05/06 01:46 PM
L38	56	37 AND @Ad<"20170409"	(US-PGPUB; USPAT)	OR	ON	ON	2023/05/06 01:47 PM
L39	28	38 AND (encrypt\$ WITH packet)	(US-PGPUB; USPAT)	OR	ON	ON	2023/05/06 01:47 PM
L40	6	39 AND ((encrypt\$ WITH packet).ti. (encrypt\$ WITH packet).ab.)	(US-PGPUB; USPAT)	OR	ON	ON	2023/05/06 01:48 PM
L41	1	35 AND 40	(US-PGPUB; USPAT)	OR	ON	ON	2023/05/06 01:48 PM
L42	5	35 NOT 40	(US-PGPUB; USPAT)	OR	ON	ON	2023/05/06 01:48 PM
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L46	5	45 AND @Ad<"20170409"	(US-PGPUB; USPAT)	OR	ON	ON	2023/05/06 01:51 PM
L47	7	(46 35) AND ((encrypt\$ AND modif\$) WITH packet)	(US-PGPUB; USPAT)	OR	ON	ON	2023/05/06 01:53 PM
L48	5	(46 35) AND ((encrypt\$ SAME modif\$) WITH packet)	(US-PGPUB; USPAT)	OR	ON	ON	2023/05/06 01:53 PM
L49	1	"7706314".pn.	(US-PGPUB; USPAT)	OR	ON	ON	2023/05/06 01:54 PM
L50	1	"8543808" .pn.	(US-PGPUB; USPAT)	OR	ON	ON	2023/05/06 01:56 PM
L51	9	45 36	(US-PGPUB; USPAT)	OR	ON	ON	2023/05/06 01:59 PM

PE2E SEARCH - Search History (Interference)

There are no Interference searches to show.

PTO/SB/08a (07-09)

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 contains a valid OMB control number.

Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>				Complete if Known	
				Application Number	18/095,238
				Filing Date	January 10, 2023
				First Named Inventor	Yoseph KOREN
				Art Unit	Not Yet Assigned
				Examiner Name	Not Yet Assigned
Sheet	1	of	1	Attorney Docket Number	P-566702-US2

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number Number-Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	1	US-6,775,780	Aug 10, 2004	Muttik	
	2	US-2017/0161499	Jun 8, 2017	Hentunen	
		US-			
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FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document Country Code ³ Number ⁴ Kind Code ⁵ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
	3	WO 2016/146609	Sep 22, 2016	BRITISH TELECOMMUNICATIONS PUBLIC LIMITED COMPANY		☐
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Examiner Signature	/AMARE F TABOR/	Date Considered	05/04/2023
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Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>				Complete if Known	
				Application Number	Not Yet Assigned
				Filing Date	Herewith
				First Named Inventor	Yoseph KOREN
				Art Unit	Not Yet Assigned
				Examiner Name	Not Yet Assigned
Sheet	1	of	2	Attorney Docket Number	P-566702-US2

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number Number-Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	1	US-7,690,040	Mar 30, 2010	Frattura et al.	
	2	US-10,454,961	Oct 22, 2019	Frayman et al.	
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FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document Country Code ³ Number ⁴ Kind Code ⁵ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
	3	KR101503009 B1	Oct 14, 2014	SECUI CORP		☒
	4	JP4887081 B2	Feb 29, 2012	KDDI R&D LABORATORIES INC		☒
	5	JP3957712 B2	Aug 15, 2007	OKI ELECTRIC IND CO LTD		☒
						☐
						☐
						☐
						☐
						☐

Examiner Signature	Date Considered
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				Filing Date	Herewith
				First Named Inventor	Yoseph KOREN
				Art Unit	Not Yet Assigned
<i>(use as many sheets as necessary)</i>				Examiner Name	Not Yet assigned
Sheet	2	of	2	Attorney Docket Number	P-566702-US2

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (where appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	6	Akira YAMADA et al; " Intrusion Detection for Encrypted Web Accesses"; published in 21st International Conference on Advanced Information Networking and Applications Workshops (AINAW07); Date 21-23 May 2007	☐
	7	Blake ANDERSON et al; " Deciphering Malware's use of TLS (without Decryption)"; published in Journal of computer Virology and Hacking Techniques, 195-211; Date 31 August 2017	☐
	8	Arnon SHIMONI et al; " Malicious traffic detection using traffic fingerprint"; published in Article (CrossRef Link); dated 2014	☐
			☐
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			☐

Examiner Signature	/AMARE F TABOR/	Date Considered	05/04/2023
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				Application Number	Not Yet Assigned
				Filing Date	Herewith
				First Named Inventor	Yoseph KOREN
				Art Unit	Not Yet Assigned
				Examiner Name	Not Yet Assigned
Sheet	1	of	2	Attorney Docket Number	P-566702-US2

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number Number-Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	1	US-2010/0058054	Mar. 4, 2010	IRVINE	
	2	US-2012/0222083	Aug. 30, 2012	VAHA-SIPLA et al.	
	3	US-2012/0005720	Jan. 5, 2020	MCGLOIN et al.	
	4	US-2013/0318347	Nov. 28, 2013	MOFFAT	
	5	US-2013/0305044	Nov. 14, 2013	GUTT et al.	
	6	US-2014/0259147	Sep. 11, 2014	L'HEUREUX et al.	
	7	US-2014/0331054	Nov. 6, 2014	HANUMANTHARAYAPPA et al.	
	8	US-2017/0098215	Apr. 6, 2017	BROTSKY et al.	
	9	US-2017/0041297	Feb. 9, 2017	LING et al.	
	10	US-2018/0359811	Dec. 13, 2018	VERZUN et al.	
	11	US-2019/0149523	May 16, 2019	SHIN et al.	
	12	US-2019/0034826	Jan. 31, 2019	AHMAD et al.	
	13	US-6,965,992	Nov. 15, 2005	JOSEPH et al.	
	14	US-7,231,027	Jun. 12, 2007	SCHMID et al.	
	15	US-8,724,553	May 13, 2014	WENIGER et al.	
	16	US-9,477,836	Oct. 25, 2016	RAMAM et al.	
	17	US-9,609,025	Mar. 28, 2017	BETZLER et al.	
	18	US-10,348,715	Jul. 9, 2019	ROSS et al.	
	19	US-10,277,614	Apr. 30, 2019	KOIDE et al.	

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ Number ⁴ Kind Code ⁵ (if known)				
	20	WO 2013/103782	Jul. 11, 2013	3M Innovative Properties Co.		☐
	21	WO 2014/031041	Feb. 27, 2014	Telefonaktiebolaget L M Ericsson		☐
						☐
						☐
						☐

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Substitute for form 1449B/PTO				Complete If Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				Application Number	Not Yet Assigned
				Filing Date	Herewith
				First Named Inventor	Yoseph KOREN
				Art Unit	Not Yet Assigned
				Examiner Name	Not Yet Assigned
(use as many sheets as necessary)				Attorney Docket Number	P-566702-US2
Sheet	2	of	2		

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (where appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	22	International Search Report of PCT Application No. PCT/IL2018/050359 mailed on July 12, 2018	☐
	23	Office Action for Israeli Application No. 251683, mailed on July 31, 2018	☐
	24	Office Action for Israeli Application No. 251683, mailed on September 26, 2017	☐
	25	Supplementary European Search Report for Application No. EP 18785029, mailed on September 24, 2020	☐
	26	Office Action for US Application No. 16/603,252 mailed on September 28, 2020	☐
	27	Office Action for US Application No. 16/603,252 mailed on January 29, 2021	☐
	28	Notice of Allowance for US Application No. 16/603,252 mailed on April 29, 2021	☐
	29	Ant'onio Casimiro et al. "Proceedings of the Workshop on Secure and Dependable Middleware for Cloud Monitoring and Management" The Association for Computing Machinery, Inc, December 3, 2012	☐
	30	Hoang T. Dinh et al. "A survey of mobile cloud computing: Architecture, applications, and approaches Wireless Communications and Mobile Computing 13(18), December 2013	☐
	31	Bolin BING et al. "Differentially Private Data Cubes: Optimizing Noise Sources and Consistency" Proceedings of the 2011 ACM SIGMOD, pages 217-228, June 2011	☐
	32	ANDERSON et al. "Identifying Encrypted Malware Traffic with Contextual Flow Data" Conference: the 2016 ACM Workshop, October 2016	☐

Examiner Signature	/AMARE F TABOR/	Date Considered	05/11/2023	05/11/2023
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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
18/095,238	01/10/2023	Yoseph KOREN	P-566702-US2	2028
49443	7590	03/09/2023		
Pearl Cohen Zedek Latzer Baratz LLP			EXAMINER	
7 Times Square, 19th Floor			CENTRAL, DOCKET	
New York, NY 10036				
			ART UNIT	PAPER NUMBER
			2491	
			NOTIFICATION DATE	DELIVERY MODE
			03/09/2023	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):

Arch-USPTO@PearlCohen.com
USPTO@PearlCohen.com

<i>Decision Granting Request for Prioritized Examination (Track I)</i>	Application No. 18/095,238	Applicant(s) KOREN et al.	
	Examiner CHERYL P GIBSON BAYLOR	Art Unit OPET	AIA (FITF) Status Yes
1. THE REQUEST FILED <u>10 January 2023</u> 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 <u>petition for extension of time</u> to extend the time period for filing a reply; B. filing an <u>amendment to amend the application to contain more than four independent claims, more than thirty total claims</u>, or a multiple dependent claim; C. filing a <u>request for continued examination</u> ; D. filing a notice of appeal; E. filing a request for suspension of action; F. mailing of a notice of allowance; G. mailing of a final Office action; H. completion of examination as defined in 37 CFR 41.102; or I. abandonment of the application. Telephone inquiries with regard to this decision should be directed to CHERYL GIBSON BAYLOR at (571)272-3213. In his/her absence, calls may be directed to Petition Help Desk at (571) 272-3282.			
/CHERYL GIBSON BAYLOR/ Paralegal Specialist, OPET			

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Application number: 251683

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This 27.7.22 ת"ש


Amir Alon
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שמור למבקש בלבד

Application No:

257683

מספר בקשה:

Date of application:

30/08/2016

תאריך הבקשה:

International Publication No:

WO/2017/037052

פרסום בינלאומי מס':

International Application No:

PCT/EP/2016/070398

בקשת פטנט בינלאומי מס':

National Phase Entry:

22/02/2018

כניסה לשלב הלאומי:

Date of submission:

22/02/2018

תאריך הגשה:

LACTOBACILLUS FERMENTUM BACTERIA
INHIBITING POST-ACIDIFICATION

חיידקים להתססת חלב המעכבים החמצה

Priority Right:	דין קדימה:
EP	15183194.8
	31/08/2015
Patentee(s):	בעלי הפטנט:
CHR. HANSEN A/S Customer No: 889299 BOEGE ALLE 10-12 DK-2970 HOERSHOLM DENMARK	
Inventor(s):	ממציא(ים):
Cecilie Lykke Marvig NIELSEN Customer No: 929397	
Tina HORNBAEK Customer No: 929398	
Pia RASMUSSEN Customer No: 929399	
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תל אביב - יפו 6721407
ישראל
ISRAEL@IPATENT.CO.IL

Reference:

73016

סימוכין:

Invention owner by:

Assignment העברה

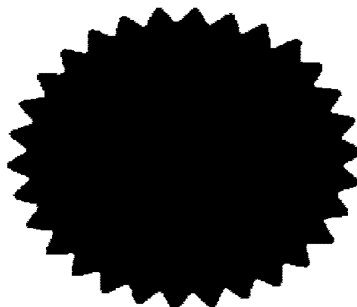
אמצאה מכח:

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מצב ליום

SYSTEM AND METHOD FOR DYNAMIC MANAGEMENT OF PRIVATE DATA

FIELD OF THE INVENTION

[001] The present invention relates to data management. More particularly, the present invention relates to systems and methods for dynamic management of private data.

BACKGROUND OF THE INVENTION

[002] During communication with external remote servers different types of data are automatically (and uncontrollably) shared, sometimes without the knowledge of the user (e.g., the owner of the data). There are currently only limited ways for the user to manage which data should be shared, with which parties, and at what time periods and/or under what circumstances such that privacy agreements cannot be fully enforced. For example, securing private elements of a user's device engaging in a transaction with a service provider, has been a challenge for many years with the rapid development of computer technology.

[003] In recent years, an increasing number of communication sessions are being biased (in terms of shared data and application usage) toward one party which is advantageous due to technological superiority, formal regulation power, and/or any other item. Such biasing may occur due to rapid development of communication related software, as well as due to development of computer technology.

[004] Social network service providers usually collect user (private) data, for example collect user's online habits. Data collection is usually carried out by a service provider requesting to share user's (private) information while the user's device automatically shares the requested information accordingly. Actions are executed by dedicated software (e.g., social plug in), which upload data requests when visiting web sites and/or applications. Such requests may be direct script by the service provider (e.g. cookie etc.), or indirect script hidden within links to other (partner) application provider (e.g. social plug-in, SDK, API etc.). While some devices allow blocking collection of certain private parameters, for example the location, only data emerging from sensors, such as global positioning system (GPS) sensors, can be managed by user while other sources of location (e.g. mobile network, IP provider, country, time zone) cannot be controlled so that in that case location information can still be collected. Thus, location information can be collected

while bypassing the instructions of the user (e.g., collecting location from cellular carrier data). Other examples from the same nature may include retrieving form data, retrieving data from flash memory and several other items which do not have the full (or partial) ability to disable and/or block data collection. Some service providers can also collect user data in order to transfer and/or sell to third parties (e.g., to present dedicated ads in the future). Another example may be avoiding biased exchange of information both from the user and the service provider perspectives.

SUMMARY OF THE INVENTION

[005] There is thus provided, in accordance with some embodiments of the invention, a method of dynamic management of private data during communication between a remote server and a user's device, the method including receiving, by the user's device, a request for retrieval of at least one data packet from the user's device, wherein the user's device is configured to provide a response corresponding to the received request, determining, by the user's device, the data type of the at least one data packet corresponding to the received request, receiving, by the user's device, a privacy preference for the user's device, wherein the privacy preference includes a list of allowed data packet types for sharing during communication, modifying data packets corresponding to requests for sharing of responses that are not compatible with the received privacy preference, and maintaining communication between the remote server and the user's device, with sharing of the modified data packets.

[006] In some embodiments, the type of the at least one data packet may be determined from metadata of communication with the remote server. In some embodiments, the method further includes determining, by the user's device, pattern of at least one response corresponding to the received request, and modifying data packets corresponding to requests for sharing of responses, corresponding to at least one data pattern, that are not compatible with the received privacy preference, wherein the privacy preference includes a list of allowed data patterns for sharing during communication. In some embodiments, the user's device includes a database with at least one data packet type corresponding to a request for sharing of data packets from the user's device, and wherein the type of data packets is determined from the database.

[007] In some embodiments, the method further includes linking at least one response to a type of data packet from the user's device, wherein the linking is based on the type and pattern of the at least one response. In some embodiments, the method further includes identifying a response corresponding to a request for sharing of data packets, wherein the identified response is not compatible with the received privacy preference, and providing a response with at least one modified data packet corresponding to the request for sharing types of data packets. In some embodiments, the modification of the at least one modified data packet is selected from the group consisting of data nullification, blocking, data randomization, content modification, change of encoding, change of file template, change of header, change of footer, addition of a predetermined data packet and encryption.

[008] In some embodiments, the method further includes identifying a communication pattern between the server and the user's device, wherein the communication pattern includes at least one request for retrieval of at least one data packet from the user's device and corresponding responses, and issuing an alert upon detection of a change in the identified communication pattern.

[009] In some embodiments, data packets from the user's device are selected from the group consisting of user's device files, user's device characteristics, user's device indirect attributes, user's device sensor data, user's device browser data, user's device form data, user's device dynamic memory and user's device static memory.

[010] There is thus provided, in accordance with some embodiments of the invention, a method of dynamic management of private data during communication between a remote server and a user's device, the method including receiving, by the user's device, a request for retrieval of at least one data packet from the user's device, wherein the user's device is configured to provide a response corresponding to the received request, determining, by the user's device, at least one data pattern corresponding to the received request, receiving, by the user's device, a privacy preference for the user's device, wherein the privacy preference includes a list of allowed data patterns for sharing during communication, modifying data packets corresponding to requests for sharing of responses and corresponding data patterns that are not compatible with the received privacy preference, and maintaining communication between the remote server and the user's device, with sharing of the modified responses.

[011] In some embodiments, the pattern of the at least one response is determined from metadata of communication with the remote server. In some embodiments, the method further includes determining, by the user's device, the type of the at least one data packet of the received request, and modifying data packets corresponding to requests for sharing of responses and corresponding data patterns, corresponding to at least one data packet type, that are not compatible with the received privacy preference, wherein the privacy preference includes a list of allowed data packet types for sharing during communication.

[012] In some embodiments, the user's device includes a database with at least one data pattern corresponding to a request for sharing of data packets from the user's device, and wherein the at least one data pattern compatible with the received request is determined from the database. In some embodiments, the method further includes determining, by the user's device, the type of the at least one data packet of the received request, and linking at least one data pattern to a type of data packet from the user's device, wherein the linking is based on the pattern of the at least one response.

[013] In some embodiments, the method further includes identifying a data pattern corresponding to a request for sharing of data packet types, wherein the identified data pattern is not compatible with the received privacy preference, and providing a response with at least one modified data packet corresponding to the request for sharing types of data packets. In some embodiments, the modification of the at least one modified data packet is selected from the group consisting of data nullification, blocking, data randomization, content modification, change of encoding, change of file template, change of header, change of footer, addition of a predetermined data packet and encryption.

[014] In some embodiments, the method further includes issuing an alert upon detection of a request for sharing data packets, wherein the detected request does not correspond to at least one of data type and data pattern that is compatible with the received privacy preference. In some embodiments, the method further includes identifying a communication pattern between the server and the user's device, wherein the communication pattern includes at least one request for retrieval of at least one data packet from the user's device and corresponding responses, and issuing an alert upon detection of a change in the identified communication pattern.

[015] In some embodiments, data packets from the user's device are selected from the group consisting of user's device files, user's device characteristics, user's device indirect

attributes, user's device sensor data, user's device browser data, user's device form data, user's device dynamic memory and user's device static memory.

[016] There is thus provided, in accordance with some embodiments of the invention, a system for dynamic management of private data during communication between a remote server and at least one user's device, the system including a data type database, including at least one data type corresponding to sharing of at least one data packet from the user's device, a privacy preference database, including a list of allowed types of data packets for sharing during communication with the at least one user's device, a communication module, to allow communication between the remote server and the at least one user's device, and a processor, coupled to the response database and to the privacy preference database, wherein the processor is configured to determine at least one data type for sharing of data packet that is compatible with the list of allowed patterns of data packets for sharing.

[017] In some embodiments, the system further includes a user interface to issue an alert upon detection of a request for retrieval of data packets that is not compatible with the privacy preference. In some embodiments, the system further includes a data pattern database, coupled to the processor, wherein the processor is configured to modify data packets corresponding to requests for retrieval of data packets and data types that are not compatible with data patterns from a data pattern database.

[018] In some embodiments, data packets from the user's device are selected from the group consisting of user's device files, user's device characteristics, user's device indirect attributes, user's device sensor data, user's device browser data, user's device form data, user's device dynamic memory and user's device static memory. In some embodiments, at least the communication module and the processor are embedded on a single hardware component.

BRIEF DESCRIPTION OF THE DRAWINGS

[019] The subject matter regarded as the invention is particularly pointed out and distinctly claimed in the concluding portion of the specification. The invention, however, both as to organization and method of operation, together with objects, features, and advantages thereof, may best be understood by reference to the following detailed description when read with the accompanying drawings in which:

[020] Fig. 1 shows a schematic block diagram of an exemplary computing device, according to some embodiments of the invention;

[021] Fig. 2 schematically illustrates a data mapping system, according to some embodiments of the invention;

[022] Fig. 3A schematically illustrates exemplary mapping of data type database, according to some embodiments of the invention;

[023] Fig. 3B schematically illustrates exemplary mapping of data pattern database, according to some embodiments of the invention;

[024] Fig. 3C schematically illustrates exemplary mapping of privacy preference table, according to some embodiments of the invention;

[025] Fig. 4 schematically illustrates a data management system, according to some embodiments of the invention;

[026] Fig. 5 shows a flowchart for a method of management of data packets with a sharing algorithm during communication between a remote server and a user's device, according to some embodiments of the invention;

[027] Figs. 6A-6B show flowcharts for a method of dynamic management of private data during communication between a remote server and a user's device, according to some embodiments of the invention; and

[028] Fig. 7 schematically illustrates a data management system 700 for dynamic management of private data that is embedded on a hardware component, according to some embodiments of the invention.

[029] It will be appreciated that for simplicity and clarity of illustration, elements shown in the figures have not necessarily been drawn to scale. For example, the dimensions of some of the elements may be exaggerated relative to other elements for clarity. Further, where considered appropriate, reference numerals may be repeated among the figures to indicate corresponding or analogous elements.

DETAILED DESCRIPTION OF EMBODIMENTS OF THE INVENTION

[030] In the following detailed description, numerous specific details are set forth in order to provide a thorough understanding of the invention. However, it will be understood by those skilled in the art that the present invention may be practiced without these specific

details. In other instances, well-known methods, procedures, and components have not been described in detail so as not to obscure the present invention.

[031] Although embodiments of the invention are not limited in this regard, discussions utilizing terms such as, for example, “processing,” “computing,” “calculating,” “determining,” “establishing,” “analyzing,” “checking”, or the like, may refer to operation(s) and/or process(es) of a computer, a computing platform, a computing system, or other electronic computing device, that manipulates and/or transforms data represented as physical (e.g., electronic) quantities within the computer’s registers and/or memories into other data similarly represented as physical quantities within the computer’s registers and/or memories or other information non-transitory storage medium that may store instructions to perform operations and/or processes. Although embodiments of the invention are not limited in this regard, the terms “plurality” and “a plurality” as used herein may include, for example, “multiple” or “two or more”. The terms “plurality” or “a plurality” may be used throughout the specification to describe two or more components, devices, elements, units, parameters, or the like. Unless explicitly stated, the method embodiments described herein are not constrained to a particular order or sequence. Additionally, some of the described method embodiments or elements thereof can occur or be performed simultaneously, at the same point in time, or concurrently.

[032] Reference is made to Fig. 1, showing a schematic block diagram of an exemplary computing device, according to embodiments of the present invention. Computing device 100 may include a controller 105 that may be, for example, a central processing unit processor (CPU), special purpose processor such as a graphic processing unit (GPU), communication control processing (CCP), a chip or any suitable computing or computational device, an operating system 115, a memory 120, a storage 130, an input devices 135 and an output device 140. Controller 105 may be configured to carry out methods as disclosed herein by for example executing code or software.

[033] Operating system 115 may be or may include any code segment designed and/or configured to perform tasks involving coordination, scheduling, arbitration, supervising, controlling or otherwise managing operation of computing device 100, for example, scheduling execution of programs. Operating system 115 may be a commercial operating system. Memory 120 may be or may include, for example, a Random Access Memory (RAM), a read only memory (ROM), a Dynamic RAM (DRAM), a Synchronous DRAM

(SD-RAM), a double data rate (DDR) memory chip, a Flash memory, a volatile memory, a non-volatile memory, a cache memory, a buffer, a short term memory unit, a long term memory unit, or other suitable memory units or storage units. Memory 120 may be or may include a plurality of, possibly different memory units.

[034] Executable code 125 may be any executable code, e.g., an application, a program, a process, automated task, software bots configured to manage data communication and user data collection (e.g., botnet), software adapted to perform artificial intelligence (AI), e.g. machine learning, deep learning, task or script. Executable code 125 may be executed by controller 105 possibly under control of operating system 115. Where applicable, executable code 125 may carry out operations described herein in real-time. Computing device 100 and executable code 125 may be configured to update, process and/or act upon information at the same rate the information, or a relevant event, are received. In some embodiments, more than one computing device 100 may be used. For example, a plurality of computing devices (in serial and/or parallel) that include components similar to those included in computing device 100 may be connected to a network and used as a system.

[035] Storage 130 may be or may include, for example, a hard disk drive, a universal serial bus (USB) device or other suitable removable and/or fixed storage unit. Content may be stored in storage 130 and may be loaded from storage 130 into memory 120 and may be stored in read only memory (ROM) to be loaded into memory 120 where it may be processed by controller 105. In some embodiments, some of the components shown in Fig. 1 may be omitted. For example, memory 120 may be a non-volatile memory having the storage capacity of storage 130. Accordingly, although shown as a separate component, storage 130 may be embedded or included in memory 120.

[036] Input devices 135 may be or may include a mouse, a keyboard, a touch screen or pad or any suitable input device. In some embodiments, computing device 100 receives input from a sensor such as global positioning system (GPS), camera, microphone, accelerometer, light sensor, compass, and any other sensor. It will be recognized that any suitable number of input devices may be operatively connected to computing device 100 as shown by block 135. Output devices 140 may include one or more displays, indicators, speakers, haptic output and/or any other suitable output devices. It will be recognized that any suitable number of output devices may be operatively connected to computing device 100 as shown by block 140. Any applicable input/output (I/O) devices may be connected

to computing device 100 as shown by blocks 135 and 140. For example, a wired or wireless network interface card (NIC), a modem, a universal serial bus (USB) device or external hard drive, cellular network connection, optical network connection, Bluetooth, and NFC may be included in input devices 135 and/or output devices 140.

[037] Embodiments of the invention may include an article such as a computer or processor non-transitory readable medium, or a computer or processor non-transitory storage medium, such as for example a memory, a disk drive, or a USB flash memory, encoding, including or storing instructions, e.g., computer-executable instructions, which, when executed by a processor or controller, carry out methods disclosed herein. For example, a storage medium such as memory 120, computer-executable instructions such as executable code 125 and a controller such as controller 105.

[038] Some embodiments may be provided in a computer program product that may include a non-transitory machine-readable medium, with instructions stored thereon, which may be used to program a computer, or other programmable devices, to perform methods as disclosed herein. Embodiments of the invention may include an article such as a computer or processor non-transitory readable medium, or a computer or processor non-transitory storage medium, such as for example a memory, a disk drive, or a USB flash memory, encoding, including or storing instructions, e.g., computer-executable instructions, which when executed by a processor or controller, carry out methods disclosed herein. The storage medium may include, but is not limited to, any type of disk including magneto-optical disks, semiconductor devices such as read-only memories (ROMs), random access memories (RAMs), such as a dynamic RAM (DRAM), erasable programmable read-only memories (EPROMs), flash memories, electrically erasable programmable read-only memories (EEPROMs), magnetic or optical cards, or any type of media suitable for storing electronic instructions, including programmable storage devices.

[039] A system according to embodiments of the invention may include components such as, but not limited to, a plurality of central processing units (CPU) or any other suitable multi-purpose or specific processors or controllers, a plurality of input units, a plurality of output units, a plurality of memory units, and a plurality of storage units. A system may additionally include other suitable hardware components and/or software components. In some embodiments, a system may include or may be, for example, a personal computer, a desktop computer, a mobile computer, a laptop computer, a notebook computer, a

terminal, a workstation, a server computer, a Personal Digital Assistant (PDA) device, a tablet computer, a network device, a smartphone, IOT device, action specific computerized machine (such as a dedicated robot) or any other suitable computing device. Unless explicitly stated, the method embodiments described herein are not constrained to a particular order or sequence. Additionally, some of the described method embodiments or elements thereof can occur or be performed at the same point in time.

[040] Reference is now made to Fig. 2, which schematically illustrates a data mapping system 200 for mapping of private data during communication with a remote server 201, according to some embodiments of the invention. The direction of arrows in Fig. 2 may indicate the direction of information flow. In order to manage private data for individual users, data mapping system 200 may initially map data types and data patterns (for example as a calibration process), as further described hereinafter. It should be noted that private data as used hereinafter may refer to any data and/or portion of data representing user's behavior, habits, characteristics, opinions, preferences, tendencies, relations, actions, status parameters (e.g., social, health, economic/wealth, legal, dependencies, being part of group and the like) and the like. In some embodiments, the user may be a computerized device (e.g., IOT, bot and the like) automatically operating on the user's behalf, so that the private data may refer to data and/or characteristics of the computerized device. Private data may also include privacy data and/or privacy preference(s).

[041] A user may choose based on private preference to share some private data and not to share other private data. Users may choose to share same private data with specific server and/or application and not to share it with different servers and/or application. In some embodiments, users may change such preference(s) at any applicable point in time. In some embodiments, private data may be automatically created to represent at least one feature of a computerized device and/or of the user of the computerized device. In some embodiments, private data may include at least one communication pattern and/or communication origin and destination and/or digital footprint and/or digital trace and/or digital response and/or digital reference. In some embodiments, private data may be received from analysis of data and/or from an external sensor and/or other source.

[042] The server 201 may be coupled to processor 202 such as controller 105, shown in Fig. 1. In some embodiments, processor 202 may receive at least one data packet 203 from server 201 to be mapped. For instance, processor 202 may receive at least one data packet

203 from a set of predetermined (or pre-classified) data packets 203. In some embodiments, processor 202 may receive from server 201 a request for sharing at least one data packet 203, for instance a request to share data packet with a contact name or contact directory data, where an automatic response may be created for each such request. It should be noted that data of such responses may also be considered as data packets 203 (e.g., to be mapped).

[043] In some embodiments, data mapping system 200 may include at least one data type database 204 and/or at least one data pattern database 205 and/or at least one privacy preference database 206 coupled to processor 202. In some embodiments, processor 202 may analyze the received data packet 203 to determine data type 207 of the data packet 203, for example by verifying at least one characteristic of the data packet 203. An exemplary mapping of data types 207 is shown in Fig. 3A.

[044] In some embodiments, processor 202 may receive (e.g., from a user) privacy preference 209 to map the privacy preference database 206 for each data type and/or data pattern of the at least one data packet 203. In some embodiments, data mapping system 200 may include a modification algorithm 210, coupled to processor 202, and configured to, modify content of data packets according to at least one privacy preference 209 (e.g., nullify a content of a data packet). For example, the user may select a privacy preference 209 for forbidden sharing of location such that modification algorithm 210 may modify the content of the data packet 203 per a predetermined algorithm, for instance randomly modify the location (country) to any other country from a list of countries (e.g., Italy).

[045] Reference is now made to Fig. 3A, which schematically illustrates exemplary mapping of data type database 204, according to some embodiments of the invention. Processor 202 may receive a request to share at least one data packet 203 (e.g., from server 201) and analyze characteristics of the at least one data packet 203, for example analyze characteristics of automatically created responses for the request. In some embodiments, the content of the received at least one data packet 203 may be analyzed for purposes of data type mapping.

[046] According to some embodiments, characteristics of the received at least one data packet 203 may be determined and dynamically fitted to an 'i'-dimensional vector 304 (e.g., static characteristics determined from metadata). It should be noted that while the characteristics vector 304 shown in Fig. 3A is five-dimensional, such vectors may have a

large number of characteristics. For example, an injective vector having dimensions of 50 characteristics (so that 'i'=50) or more. In some embodiments, an increased number of parameters in the characteristics vector 304 may improve chances of correctly determining the data type 207 until optimal determination of various data types may be achieved.

[047] At least one of the following characteristics of a data packet 203 may be injectively determined for each data packet: header, footer, version number, request by hostname/IP, sent to hostname/IP, server hostname/IP, IP address, file extension, , standard title, non-standard title, , encryption yes/no, encryption method, encoding yes/no, encoding method (e.g., 'UTF8'), whole file, chunked file, keywords, API version, SDK version, Social plug-in version, driver, communication protocol, action verbs, HTTP/HTTPS, URL Part Names, and/or any other specific character 'i' within the at least one data packet 203. The determined characteristics vector 304 may be associated with a particular data type 207 (since every data packet 203 corresponds to some data type 207), that may be still unknown (e.g., in terms of its content) and for instance indicated as data type 'j'. In some embodiments, processor 202 may receive at least one pre-classified data packet 203 with a known data type. In some embodiments, the data type 207 of characteristics vector 304 for the data-mapping stage, may be determined by reading the content of the corresponding data packet 203, for example reading content for the country name, web browsing history, operating system, etc.

[048] Such data types 207 (or characteristics vectors 304) that are gathered by processor 202, and possibly still having unknown data type content (e.g., data type 'j') at this stage, may be stored (e.g., stored in memory such as memory 120 shown in Fig. 1) at data type database 204 in order to carry out the data type mapping. Processor 202 may map the stored data types to link characteristics vectors 304 with data types 207. In some embodiments, processor 202 may determine that characteristics vectors 304 having at least one identical characteristic may correspond to a particular data type 207 (e.g. Web content search history type).

[049] Reference is now made back to Fig. 2. In some embodiments, data pattern database 205 may include at least one data pattern 208 corresponding to responses to sharing of at least one data packet 203. Similarly to mapping of data types (e.g., as shown in Fig. 3A), processor 202 may map data patterns of responses to request of sharing data packets 203. It should be noted that while the data type 207 of a data packet 203 may correspond to

static parameters (e.g., email address), the data patterns 208 may correspond to features of the dynamic data flow of data packet 203 that may be regarded as the “behavior” of the data packet 203.

[050] Reference is now made to Fig. 3B, which schematically illustrates exemplary mapping of data pattern database 205, according to some embodiments of the invention. Processor 202 may receive at least one data packet 203 (e.g., from server 201), for example at least one response (or data packet) corresponding to a request for sharing the data packet 203 to analyze pattern behavior of the at least one response (or data packet). In some embodiments, the content of the received at least one data packet 203 may be analyzed to determine the data pattern. For example, at least one response may injectively correspond to a request for sharing at least one data packet 203 and/or a characteristic of the data packet 203 (e.g., a picture file from memory or from camera).

[051] It should be noted that while the pattern vector 305 shown in Fig. 3B is four-dimensional, such vectors may have a large number of features or ranges. For example, an injective vector 305 having dimensions of 100 features and/or ranges (so that ‘m’=100) or more. At least one of the following dynamic features of a data pattern may be determined for each data packet: frequency (e.g., appearance(s) per second), size (e.g., in kilobytes), speed (in kilobytes per second), count (e.g., numbers), ratio (e.g., compared to other datatype flow), repeat (e.g., cyclic order), order, server reference (e.g., website reference such as “example.com/feature”) and/or any combination thereof and/or other pattern behavior ‘m’ within the at least one data packet. In some embodiments, ranges for every feature (e.g., frequency) may be determined (e.g., lowest and highest frequency) as a feature of the data pattern 208. In some embodiments, a range may refer to non-discrete values (in contrast to discrete or static values in data type mapping, as shown in Fig. 3A), for instance a range defining number of website sub references (e.g., “example.com/sub-feature/sub-feature” with two sub references).

[052] The determined feature or pattern behavior vector 305 may be associated with a particular data pattern 208 (since every data packet 203 corresponds to some data pattern 208), that may be still unknown and for instance indicated as data pattern 208 ‘n’. In some embodiments, processor 202 may receive at least one pre-classified data packet 203 with a known data pattern.

[053] Such data patterns 208 that are gathered by processor 202, and possibly still having unknown data pattern 'n' at this stage, may be stored (e.g., stored in memory such as memory 120 shown in Fig. 1) at data pattern database 205 in order to carry out the data pattern mapping. Processor 202 may map the stored data patterns 'n' to link behavior vectors 305 with data patterns 208. In some embodiments, processor 202 may determine that pattern behavior vectors 305 having at least one identical characteristic and/or range may correspond to a data pattern 208 (e.g., same frequency range). In some embodiments, data patterns 208 may be determined according to logical conditions and/or ranges, for example for responses having frequency and size features in within predetermined thresholds.

[054] Reference is now made to Fig. 3C, which schematically illustrates exemplary mapping of privacy preference table 306, according to some embodiments of the invention. Processor 202 may receive at least one data packet 203 (e.g., from server 201), for example at least one response (or data packet) corresponding to a request for sharing the data packet 203 to analyze type and pattern behavior of the at least one response (or data packet) to create data type database 204 and data pattern database 205 as described above. In some embodiments, processor 202 may receive (e.g., from a user) privacy preference database 206 to map the privacy preference table 306 for each data type (content) and/or data pattern of the at least one data packet 203. For example, the user may fill a privacy preference template (e.g., selecting to allow sharing of username) for different options of data types and/or data patterns to determine the privacy preference table 306. In case that some data packet is forbidden for sharing (e.g., contact data and/or a password), the content of that data packet may be, for example randomly, modified by predetermined modification algorithm 210 such that the modified content (e.g., nullified password or randomly replaced to a dummy contact name from a list) may be shared. In some embodiments, processor 202 may only check the data type such that no pattern is checked in order to determine the policy to apply, for example sharing of password data types may be completely forbidden so that data patterns are not checked. In some embodiments, processor 202 may detect an IoT device and only check the data pattern where the data type may not be checked. In some embodiments, processor 202 may only check the data pattern such that no data type is checked, for example checking frequency limit and modifying in accordance with the predefined limitations. In some embodiments,

repetition in at least one forbidden characteristic (e.g., forbidden frequency) may cause blocking of data sharing.

[055] Reference is now made back to Fig. 2. In some embodiments, privacy preference database 206 may include at least one privacy preference 209 such as a template to link privacy preferences for the determined data types 207 and/or data patterns 208 and/or modification algorithm 210. For example, privacy preference database 206 may include an un-populated matrix with data types 207 and/or data patterns 208 and/or modification algorithm 210 such that a user may choose which data types (content) 207 and/or data patterns 208 to share. In some embodiments, data mapping system 200 may include a modification algorithm 210, coupled to processor 202, and configured to manage sharing of at least one data packet 203 based on its data type 207 and/or data pattern 208 to comply with at least one privacy preference 209. The operation of the modification algorithm 210 is further described in Fig. 5, hereinafter.

[056] In some embodiments, data mapping system 200 (shown in Fig. 2) may be used as a system to determine collection of uncontrolled information from hardware equipment. Some manufacturers embed into their products, hidden agent(s) which transmits at least one hidden data packet. As may be apparent to one of ordinary skill in the art, such systems and methods may identify “back door” ability which may be part of the hardware core functionality and/or part of unit’s embedded software. In some embodiments, by implementing the data mapping system 200 (shown in Fig. 2), unrecognized type and/or pattern of data packet may be determined, wherein the unrecognized type and/or pattern of data packet may be generated internally (in contrast to being requested by the server). Such data packet may be stored and further investigated for its origin and destination.

[057] Reference is now made to Fig. 4, which schematically illustrates a data management system 400 for dynamic management of private data during communication between a remote server 401 (such as server 201 in Fig. 2) and at least one user’s device 411, according to some embodiments of the invention. The direction of arrows in Fig. 4 may indicate the direction of information flow. It should be noted that the at least one user’s device 411 may be a computerized device such as computing device 100, shown in Fig. 1.

[058] In some embodiments, data management system 400 may include a data type database 404 (such as data type database 204 in Fig. 2), coupled to processor 402, such

that processor 402 may modify data packets (e.g., modify responses) to requests for retrieval of data packets 403 that are not compatible with data types from a data type database 404 and/or with data patterns from a data pattern database 405. In some embodiments, data management system 400 may further include a user interface 413 to issue an alert upon detection of a request for retrieval of data packets 403 that is not compatible with the privacy preference. In some embodiments, data packets 403 from the user's device 411 may be a response created as full or partial extraction(s) selected from the group consisting of any one of user's device files (permanent or temporary), user's device characteristics, user's device indirect attributes, user's device sensor data, user's device browser data, user's device form data, user's device dynamic memory user's device static memory or the like.

[059] In some embodiments, data management system 400 may further include a user database 421 and/or a server database 431 for mapping of users and/or servers. Each user and/or user's device 411 using data management system 400 may be registered in user database 421 with corresponding privacy preference from privacy preference database 406, such that each user and/or user's device 411 may be linked to at least one privacy preference from privacy preference database 406. In some embodiments, server database 431 may include a list of servers 401 for communication with user devices 411. For example, a user may determine a predefined list of servers 401 for sharing of data (e.g., determine a whitelist). Thus, privacy preference database 406 may link privacy and/or sharing preferences for each user and/or server and/or data type and/or data pattern.

[060] In some embodiments, data management system 400 may perform at least one of sharing, blocking and/or modifying, per the modification algorithm 410 (e.g., such as modification algorithm 210, shown in Fig. 2), data packets 403 during communication between server 401 and user's device 411 according to the corresponding privacy preference from privacy preference database 406. For example, requests for sharing of data packets 403 of unrecognized data type may be blocked, requests for sharing of data packets 403 of allowed data type are shared, and requests for sharing of data packets 403 of forbidden data type are modified such that a predetermined response may be shared (e.g., nullify of contact data and randomly change to different mobile carrier from carrier list). In some embodiments, modification algorithm 410 may be configured for each mapped data type and/or data pattern so as to maintain communication as well as the

privacy preference by, for example randomly, modifying forbidden data packet (content) for sharing.

[061] In some embodiments, data mapping system 200 (shown in Fig. 2) may be continuously updates such that blocked unrecognized data types may be stored in a dedicated memory (such as memory 120 in Fig. 1) until this data type is mapped and recognized.

[062] In some embodiments, data management system 400 may perform at least one of sharing, blocking and modifying data packets 403 during communication between server 401 and user's device 411 in substantially real time such that the user may continue operation of user's device 411 while data management system 400 may operate in the background and/or operate in application mode for some operating systems (e.g., IOS) and/or some browsers (e.g., Safari). In some embodiments, data management system 400 (in contrast to the data-mapping stage) may handle encrypted data packets 403 since determination of data type does not read and concern the actual content of the data packet 403 even if the content is encrypted. It should be noted that while the mapping stage (e.g., described in Figs. 2 and 3A-3C) may require reading the content of the data packets for initial determination of data type and/or data pattern and/or privacy preference, the data management system 400, in contrast, does not need to read the actual content of the data packets.

[063] In some embodiments, data management system 400 may include a data pattern database 405 (such as data pattern database 205 in Fig. 2) with at least one data pattern corresponding to sharing of at least one data packet 403 (such as data packet 203 in Fig. 2) from user's device 411. In some embodiments, various data packets may be analyzed (e.g., by a processor) to determine reoccurring data patterns and thereby create data pattern database 405. As may be apparent to one of ordinary skill in the art, computerized devices such as user's device 411 may include a plurality of data packets 403 with various information (e.g., time zone, type of operating system, location, web browsing history, mouse movement, external audio, eye's focus tracking etc.) regarding the user's device 411.

[064] During communication with remote servers such as server 401, the server may send requests for sharing of these data packets 403, wherein the user's device 411 may automatically provide a corresponding response (or data packet) that is compatible with

the received request without knowledge, control and/or authorization of the user. According to some embodiments, data management system 400 may manage data packets 403 that are shared with server 401 according to a predefined privacy preference. In some embodiments, data management system 400 may further include a privacy preference database 406 (such as privacy preference database 206 in Fig. 2) with a predetermined privacy preference and/or a list of allowed and/or forbidden types of data packets 403 for sharing and/or modifying and/or, if not recognized, for blocking during communication with the at least one user's device 411. In some embodiments, at least some elements of the data management system 400 may be similar to corresponding elements in data mapping system 200, for example privacy preference database 406 while the content of data packet is not read.

[065] In some embodiments, data management system 400 may further include a communication module 412 configured to allow communication between the server 401 and the at least one user's device 411. In some embodiments, a user may determine at least one privacy preference from privacy preference database 406 with privacy preferences for data types and/or data patterns that the user allows for sharing (and/or forbidden types to be modified and/or, if not recognized types, to be blocked), for example the user may choose to block sharing of location data of any kind.

[066] In some embodiments, data management system 400 may further include a processor 402 (such as controller 105, shown in Fig. 1) coupled to the data pattern database 405 and to the privacy preference database 406. In some embodiments, processor 402 may be coupled to communication module 412. In some embodiments, processor 402 may be embedded in user's device 411. In some embodiments, processor 402 may determine at least one data pattern for sharing of data packet 403 that is for example compatible with the list of allowed types of data packets 403 from data type database 404 for sharing. In some embodiments, processor 402 may be embedded in server 401.

[067] In some embodiments, data management system 400 may operate in user's device 411 (e.g., in the form of internal proxy) to manage sharing of data packets 403, while data management system 400 may not affect other functionalities of the user's device 411 so as to allow uninterrupted usage of the device.

[068] Reference is now made to Fig. 5, which shows a flowchart for a method of management of data packets with a sharing algorithm during communication between a

remote server and a user's device, according to some embodiments of the invention. The processor (e.g., processor 402) may provide a data packet 403, for instance in response to a request for sharing of data. The received data packet 403 may be checked 501 for known or unknown element, for instance checked 501 for known data type and/or known data pattern based on data type database 404 and/or data pattern database 405. According to some embodiments, unknown elements may be determined as unrecognized and be blocked 510 by the sharing algorithm and not shared (e.g., with the server).

[069] In some embodiments, known elements may be checked 502 for allowed or forbidden elements, for instance checked 502 for allowed data type and/or allowed data pattern based on privacy preference database 406. According to some embodiments, allowed elements may be shared 520 by the sharing algorithm. According to some embodiments, forbidden elements may be, for example randomly, modified 530 by the predetermined modification algorithm 410 with sharing 520 of the modified content (e.g., with the server). For example, a user choosing not to share the country name may choose a privacy preference to modify such data packet to always share a random country name from a list of countries (e.g., "France") by modifying the data packet to be shared with the user, in order to maintain ongoing communication with the server.

[070] It should be noted that with data management system 400, the user may choose features for sharing such that other features that are forbidden for sharing may be modified so as to allow continuous and uninterrupted communication with the server.

[071] Reference is now made to Fig. 6A, which shows a flowchart for a method of dynamic management of private data during communication between a remote server 401 and a user's device 411, according to some embodiments of the invention. In some embodiments, user's device 411 may receive 601 a request for retrieval of at least one data packet 403 from the user's device 411, wherein the user's device 411 may provide a response corresponding to the received request.

[072] In some embodiments, the user's device 411 may determine 602 the data type of the at least one data packet 403 corresponding to the received request. In some embodiments, the user's device 411 may receive 603 a privacy preference for the user's device 411, wherein the privacy preference includes a list of allowed (or forbidden) data packet types for sharing (or randomly modifying per the predetermined modification algorithm for each forbidden data type) during communication. In some embodiments,

data packets corresponding to requests for sharing of responses that are not compatible with the received privacy preference may be modified 604. In some embodiments, responses to requests for sharing of data packets 403 of unrecognized type may be blocked. In some embodiments, communication between the remote server 401 and the user's device 411 may be maintained 605 with sharing of the modified data packets (e.g., responses).

[073] In some embodiments, the user's device 411 may determine a pattern of at least one response corresponding to the received request, and modify data packets (e.g., responses) to requests for sharing of data packets 403 corresponding to at least one data pattern that are not compatible with the received privacy preference. In some embodiments, the privacy preference may include a list of allowed data patterns for sharing during communication.

[074] It should be noted that such predetermined modification per each forbidden data packet type, may be a fixed or random action, depend on the user's preference and the content (e.g. nullify for password and randomly change to different country from countries list). For data packets that are not compatible with the received privacy preference (as determined by the user) may allow users to optimally control sharing of their data. For example, a user choosing not to share location data may use the system to randomly modify the data packets during communication (as above) such that the location data may not be transferred via other means (e.g., user's instruction not to share location, application blocking only sensor GPS data while sharing country code data).

[075] In some embodiments, the user's device 411 may include a database with at least one data packet type corresponding to a request for sharing of data packets 403 from the user's device 411, wherein the type of data packets 403 may be determined from the data packet type database. In some embodiments, at least one response may be linked to a type of data packet 403 from the user's device 411, wherein the linking may be based on the data type and data pattern of the at least one response.

[076] In some embodiments, a response corresponding to a request for sharing of data packets may be identified (e.g., by a processor 402), wherein the identified response is not compatible with the received privacy preference. In some embodiments, a response with at least one modified data packet corresponding to the request for sharing types of data packets may be provided per the modification algorithm. In some embodiments,

modification of the at least one modified data packet 403 may be selected from the group consisting of data nullification, change of encoding and/or file template, change of header and/or footer, blocking, data randomization, content modification, addition of a predetermined data packet, encryption or the like.

[077] In some embodiments, a communication pattern between the server 401 and the user's device 411 may be identified, wherein the communication pattern may include at least one request for retrieval of at least one data packet 403 from the user's device 411 and corresponding responses. In some embodiments, an alert may be issued (e.g., by a processor 402) upon detection of a change in the identified communication pattern. In some embodiments, data packets 403 from the user's device 411 may be a response created as full or partial extraction(s) selected from the group consisting of any one of user's device files (permanent or temporary), user's device characteristics, user's device indirect attributes, user's device sensor data, user's device browser data, user's device form data, user's device dynamic memory user's device static memory or the like. .

[078] Reference is now made to Fig. 6B, which shows a flowchart for a method of dynamic management of private data during communication between a remote server 401 and a user's device 411, according to some embodiments of the invention. In some embodiments, user's device 411 may receive 611 a request for retrieval of at least one data packet 403 from the user's device 411, wherein the user's device 411 may provide a response corresponding to the received request.

[079] In some embodiments, user's device 411 may determine 612 at least one data pattern corresponding to the received request. In some embodiments, user's device 411 may receive 613 a privacy preference for the user's device 411, wherein the privacy preference may include a list of allowed (and/or forbidden) data patterns for sharing (and/or randomly modifying according to the predetermined modification algorithm for each of the forbidden data patterns) during communication. In some embodiments, responses corresponding to requests for sharing of data packets and corresponding data patterns that are not compatible with the received privacy preference may be modified 614. In some embodiments, communication between the remote server 401 and the user's device 411 may be maintained 615 with sharing of the modified responses.

[080] In some embodiments, user's device 411 may determine the type of the at least one data packet 403 of the received request. In some embodiments, requests for sharing of data

packets 403 and corresponding data patterns, corresponding to at least one data packet type, that are not compatible with the received privacy preference may be modified. In some embodiments, the privacy preference may include a list of allowed (and/or forbidden) data packet types for sharing (and/or modifying) during communication.

[081] In some embodiments, user's device 411 may include a database with at least one data pattern corresponding to a request for sharing of data packets from the user's device, and wherein the at least one data pattern compatible with the received request may be determined from the database. In some embodiments, user's device 411 may determine the type of the at least one data packet 403 of the received request, and link at least one data pattern to a type of data packet from the user's device 411, wherein the linking may be based on the pattern of the at least one response.

[082] In some embodiments, a data pattern corresponding to a request for sharing of types data packets 403 may be identified (e.g., by a processor 402), wherein the identified data pattern is not compatible with the received privacy preference. In some embodiments, a response with at least one modified data packet corresponding to the request for sharing types of data packets may be provided.

[083] In some embodiments, an alert may be issued (e.g., by a processor 402) upon detection of a request for sharing data packets, wherein the detected request does not correspond to a data type and/or a data pattern and/or a combination thereof that is not compatible with the received privacy preference. In some embodiments, a communication pattern between the server 401 and the user's device 411 may be identified, wherein the communication pattern may include at least one request for retrieval of at least one data packet 403 from the user's device 411 and corresponding responses. In some embodiments, an alert may be issued (e.g., by a processor 402) upon detection of a change in the identified communication pattern.

[084] In some embodiments, a data management system (e.g., data management system 400 as shown in Fig. 4) may be implemented as an exit gatekeeper to monitor outflow communication. For example, in network embedded devices (NED) with limited CPU power, low memory capacity and low power resources means (e.g., internet of things (IOT) device and/or machine to machine and/or machine to server communication and/or other thin client or the like). Outflow communication may be monitored for communication patterns and/or data packet type and/or data pattern and once going out of

predefined type and/or pattern range, may limit communication flow and/or block it. This ability to monitor and control outflow communication by the system may prevent for any user's device and/or NED, from being part of communication overloading attacks for example distributed denial of service (DDoS) attack or the like. Such attacks may be created by malicious attackers who are remotely using uncontrolled user's device and/or NED or the like, to generate very high communication flow (e.g., 1 terabyte per second) in short period of time (e.g. hundreds of thousands or more of IP address endpoints at the same time) that basically overload the attacked server(s) until it adversely impacts its ability to function and in some cases creates fatal malfunction in mission critical systems.

[085] Reference is now made to Fig. 7, which schematically illustrates a data management system 700 for dynamic management of private data that is at least partially embedded on a hardware component 711 (indicated with a solid line), according to some embodiments of the invention. The data management system 700 may include the communication module and/or processor adjusted and preconfigured to privacy preference methods and processes and/or data storage such as privacy preference database. The data management system 700 may be at least partially embedded on a hardware component 711, for instance embedded on one chip and/or integrated circuit and/or processor. According to some embodiments the system may communicate with server 401 and/or user's device 411 via the communication module 412. In some embodiments, the hardware component 711 (indicated with a solid line) may include at least one privacy preference database that been preconfigured and may be updated only locally so that no remote change can be made, for example by using electrically erasable programmable read-only memories (EEPROMs). In some embodiments, the hardware component 711 (indicated with a solid line) may be embedded and/or added to user's device 411 (indicated with a dashed line).

[086] For example, such data management system 700 may be added into an IOT device (e.g., adding a chip and/or a circuit to the CPU) such that DDoS may be prevented, for example, communication between the IOT device may be monitored and controlled for unusual communication patterns, such that data patterns containing higher frequency (e.g. higher than ten data packets per second) and/or data flow (e.g., higher than 1 megabyte per second) may be blocked by the system, according to privacy preferences determined for that purpose. For example, as shown in Fig. 3C as well. It should be noted that such

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preferences may only check data patterns where the data type of the data packets in the communication are not checked.

[087] Unless explicitly stated, the method embodiments described herein are not constrained to a particular order in time or chronological sequence. Additionally, some of the described method elements can be skipped, or they can be repeated, during a sequence of operations of a method.

[088] Various embodiments have been presented. Each of these embodiments may of course include features from other embodiments presented, and embodiments not specifically described may include various features described herein.

CLAIMS

1. A method of dynamic management of private data during communication between a remote server and a user's device, the method comprising:
 - receiving, by the user's device, a request for retrieval of at least one data packet from the user's device, wherein the user's device is configured to provide a response corresponding to the received request;
 - determining, by the user's device, the data type of the at least one data packet corresponding to the received request;
 - receiving, by the user's device, a privacy preference for the user's device, wherein the privacy preference comprises a list of allowed data packet types for sharing during communication;
 - modifying data packets corresponding to requests for sharing of responses that are not compatible with the received privacy preference; and
 - maintaining communication between the remote server and the user's device, with sharing of the modified data packets.
2. The method of claim 1, wherein the type of the at least one data packet is determined from metadata of communication with the remote server.
3. The method of claim 1, further comprising:
 - determining, by the user's device, pattern of at least one data packet corresponding to the received request; and
 - modifying data packets corresponding to requests for sharing of responses corresponding to at least one data pattern, that are not compatible with the received privacy preference,
 - wherein the privacy preference comprises a list of allowed data patterns for sharing during communication.
4. The method of claim 1, wherein the user's device comprises a database with at least one data packet type corresponding to a request for sharing of data packets from the user's device, and wherein the type of data packets is determined from the database.

5. The method of claim 1, further comprising linking at least one response to a type of data packet from the user's device, wherein the linking is based on the type and pattern of the at least one response.
6. The method of claim 1, further comprising:
 - identifying a response corresponding to a request for sharing of data packets, wherein the identified response is not compatible with the received privacy preference; and
 - providing a response with at least one modified data packet corresponding to the request for sharing types of data packets.
7. The method of claim 6, wherein the modification of the at least one modified data packet is selected from the group consisting of data nullification, blocking, data randomization, content modification, change of encoding, change of file template, change of header, change of footer, addition of a predetermined data packet and encryption.
8. The method of claim 1, further comprising:
 - identifying a communication pattern between the server and the user's device, wherein the communication pattern comprises at least one request for retrieval of at least one data packet from the user's device and corresponding responses; and
 - issuing an alert upon detection of a change in the identified communication pattern.
9. The method of claim 1, wherein data packets from the user's device are selected from the group consisting of user's device files, user's device characteristics, user's device indirect attributes, user's device sensor data, user's device browser data, user's device form data, user's device dynamic memory and user's device static memory.

10. A method of dynamic management of private data during communication between a remote server and a user's device, the method comprising:
 - receiving, by the user's device, a request for retrieval of at least one data packet from the user's device, wherein the user's device is configured to provide a response corresponding to the received request;
 - determining, by the user's device, at least one data pattern corresponding to the received request;
 - receiving, by the user's device, a privacy preference for the user's device, wherein the privacy preference comprises a list of allowed data patterns for sharing during communication;
 - modifying data packets corresponding to requests for sharing of responses and corresponding data patterns that are not compatible with the received privacy preference; and
 - maintaining communication between the remote server and the user's device, with sharing of the modified data packets.
11. The method of claim 10, wherein the pattern of the at least one response is determined from metadata of communication with the remote server.
12. The method of claim 10, further comprising:
 - determining, by the user's device, the type of the at least one data packet of the received request; and
 - modifying data packets corresponding to requests for sharing of responses and corresponding data patterns, corresponding to at least one data packet type, that are not compatible with the received privacy preference,
 - wherein the privacy preference comprises a list of allowed data packet types for sharing during communication.
13. The method of claim 10, wherein the user's device comprises a database with at least one data pattern corresponding to a request for sharing of data packets from the user's device, and wherein the at least one data pattern compatible with the received request is determined from the database.

14. The method of claim 10, further comprising:
 - determining, by the user's device, the type of the at least one data packet of the received request; and
 - linking at least one data pattern to a type of data packet from the user's device, wherein the linking is based on the pattern of the at least one response.
15. The method of claim 10, further comprising:
 - identifying a data pattern corresponding to a request for sharing of data packet types, wherein the identified data pattern is not compatible with the received privacy preference; and
 - providing a response with at least one modified data packet corresponding to the request for sharing types of data packets.
16. The method of claim 15, wherein the modification of the at least one modified data packet is selected from the group consisting of data nullification, blocking, data randomization, content modification, change of encoding, change of file template, change of header, change of footer, addition of a predetermined data packet and encryption.
17. The method of claim 10, further comprising issuing an alert upon detection of a request for sharing data packets, wherein the detected request does not correspond to at least one of data type and data pattern that is compatible with the received privacy preference.
18. The method of claim 10, further comprising:
 - identifying a communication pattern between the server and the user's device, wherein the communication pattern comprises at least one request for retrieval of at least one data packet from the user's device and corresponding responses; and
 - issuing an alert upon detection of a change in the identified communication pattern.

19. The method of claim 10, wherein data packets from the user's device are selected from the group consisting of user's device files, user's device characteristics, user's device indirect attributes, user's device sensor data, user's device browser data, user's device form data, user's device dynamic memory and user's device static memory.
20. A system for dynamic management of private data during communication between a remote server and at least one user's device, the system comprising:
- a data type database, comprising at least one data type corresponding to sharing of at least one data packet from the user's device;
 - a privacy preference database, comprising a list of allowed types of data packets for sharing during communication with the at least one user's device;
 - a communication module, to allow communication between the remote server and the at least one user's device; and
 - a processor, coupled to the response database and to the privacy preference database,
- wherein the processor is configured to determine at least one data type for sharing of data packet that is compatible with the list of allowed patterns of data packets for sharing.
21. The system of claim 20, further comprising a user interface to issue an alert upon detection of a request for retrieval of data packets that is not compatible with the privacy preference.
22. The system of claim 20, further comprising a data pattern database, coupled to the processor, wherein the processor is configured to modify data packets corresponding to requests for retrieval of data packets and data types that are not compatible with data patterns from a data pattern database.
23. The system of claim 22, wherein data packets from the user's device are selected from the group consisting of user's device files, user's device characteristics, user's device indirect attributes, user's device sensor data, user's device browser data,

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user's device form data, user's device dynamic memory and user's device static memory.

24. The system of claim 22, wherein at least the communication module and the processor are embedded on a single hardware component.

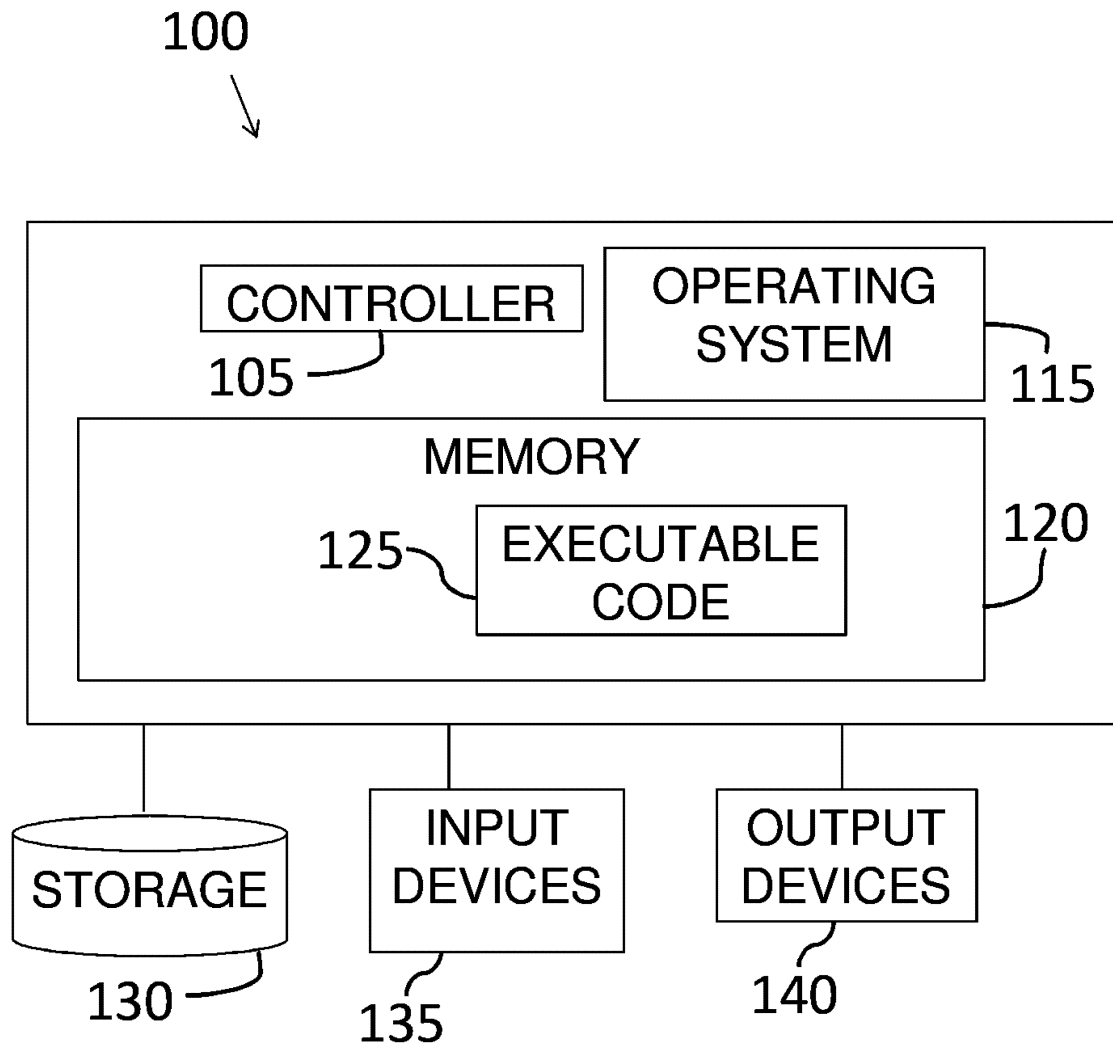


Fig. 1

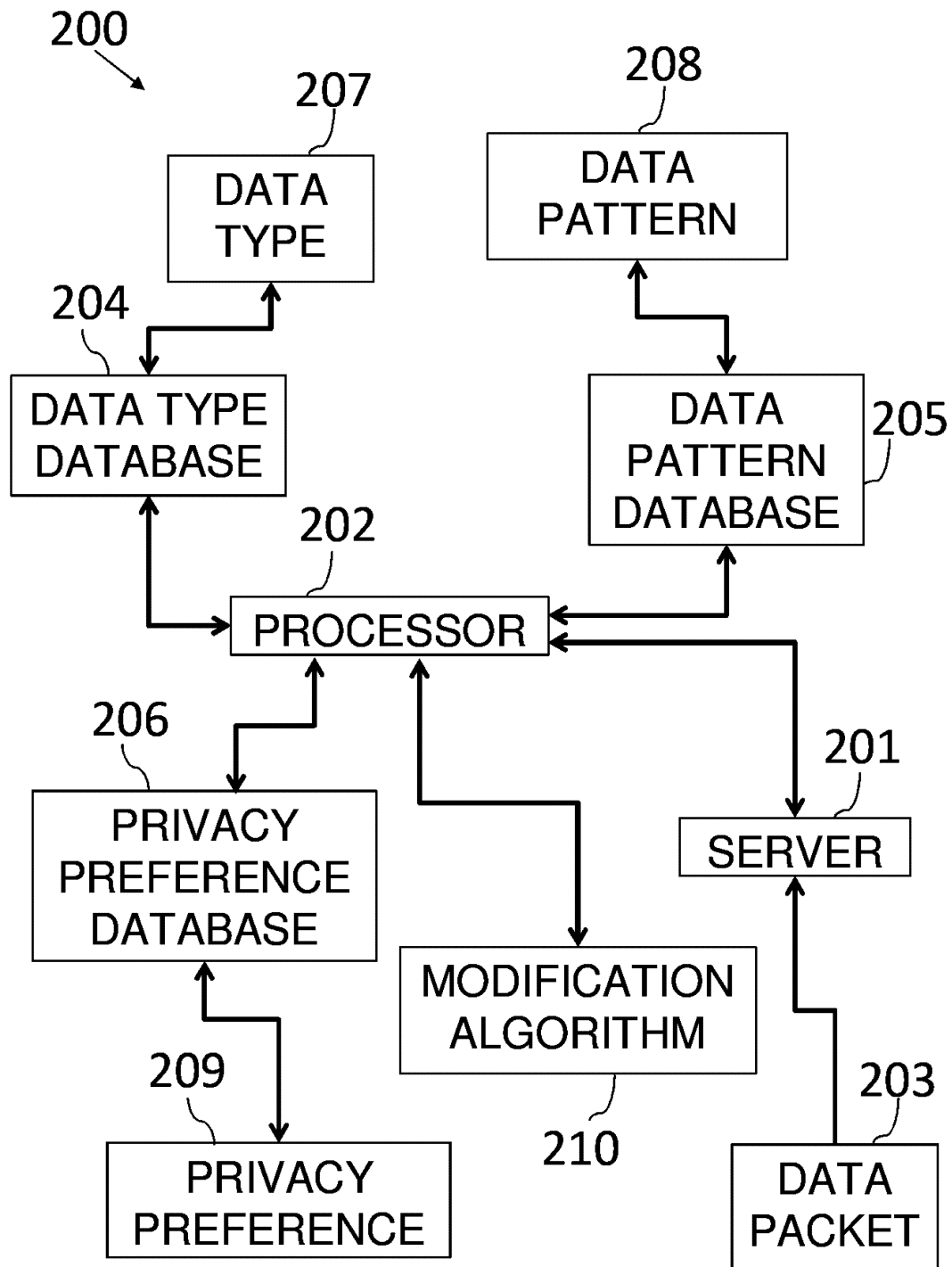


Fig. 2

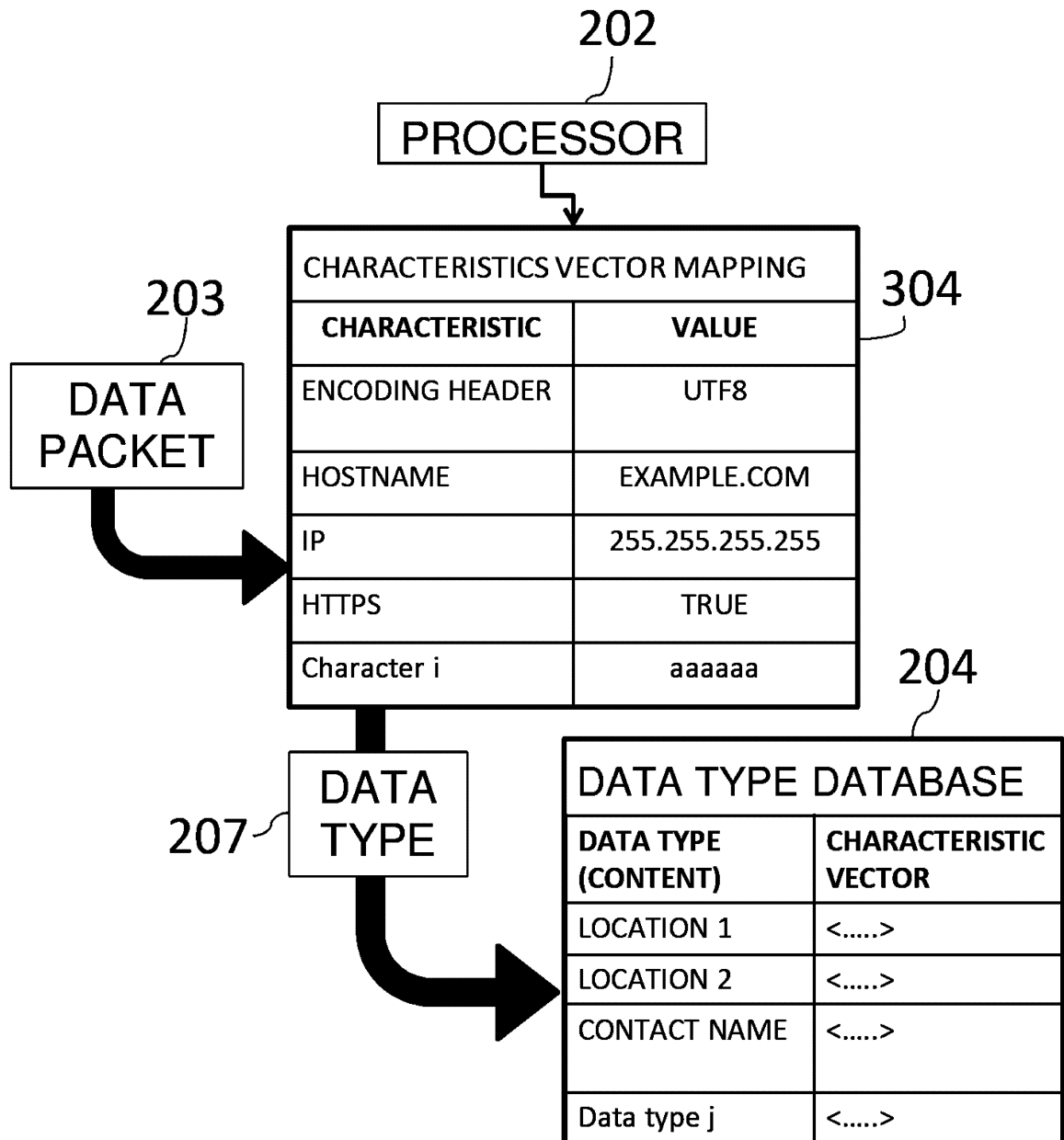


Fig.3A

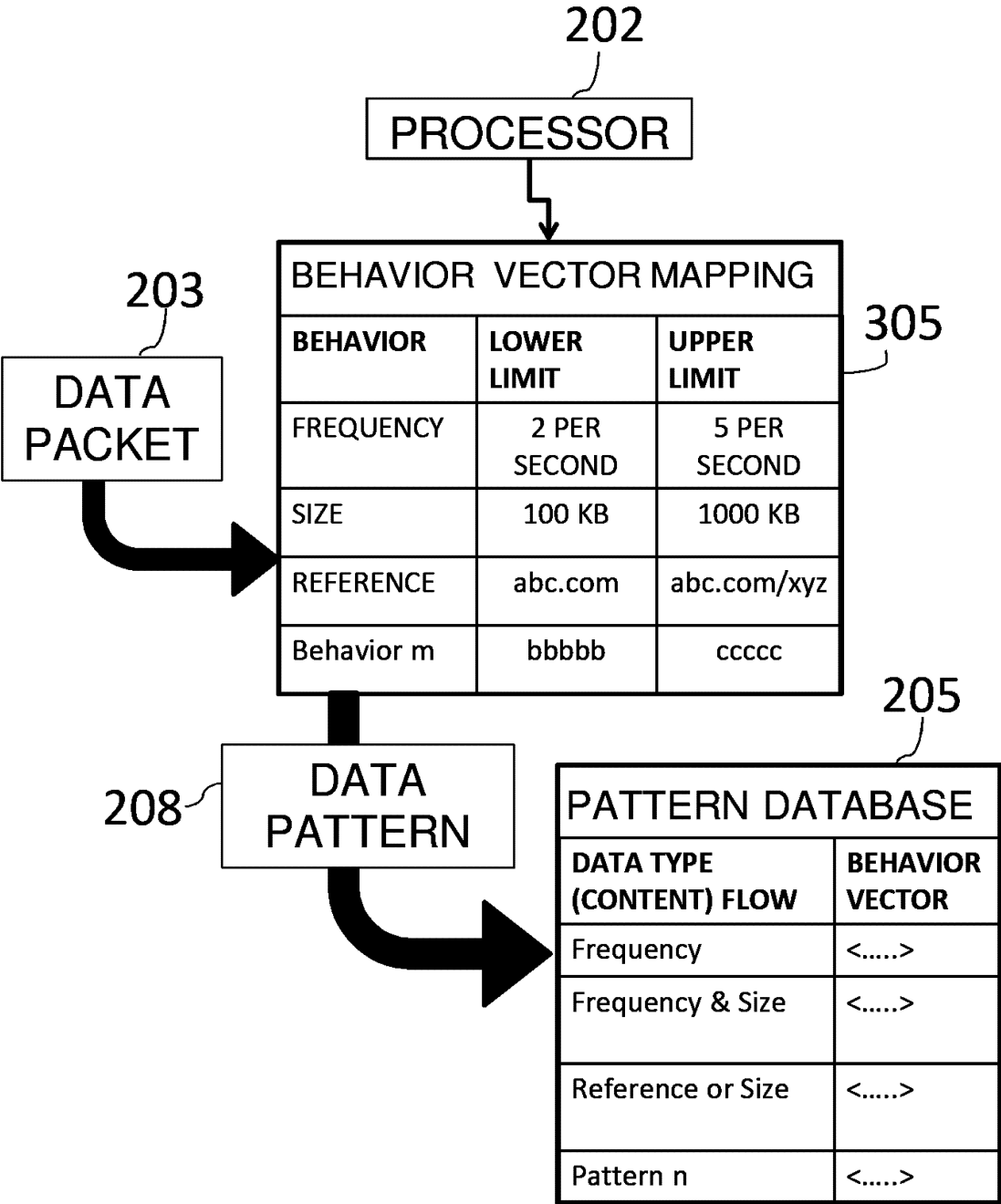
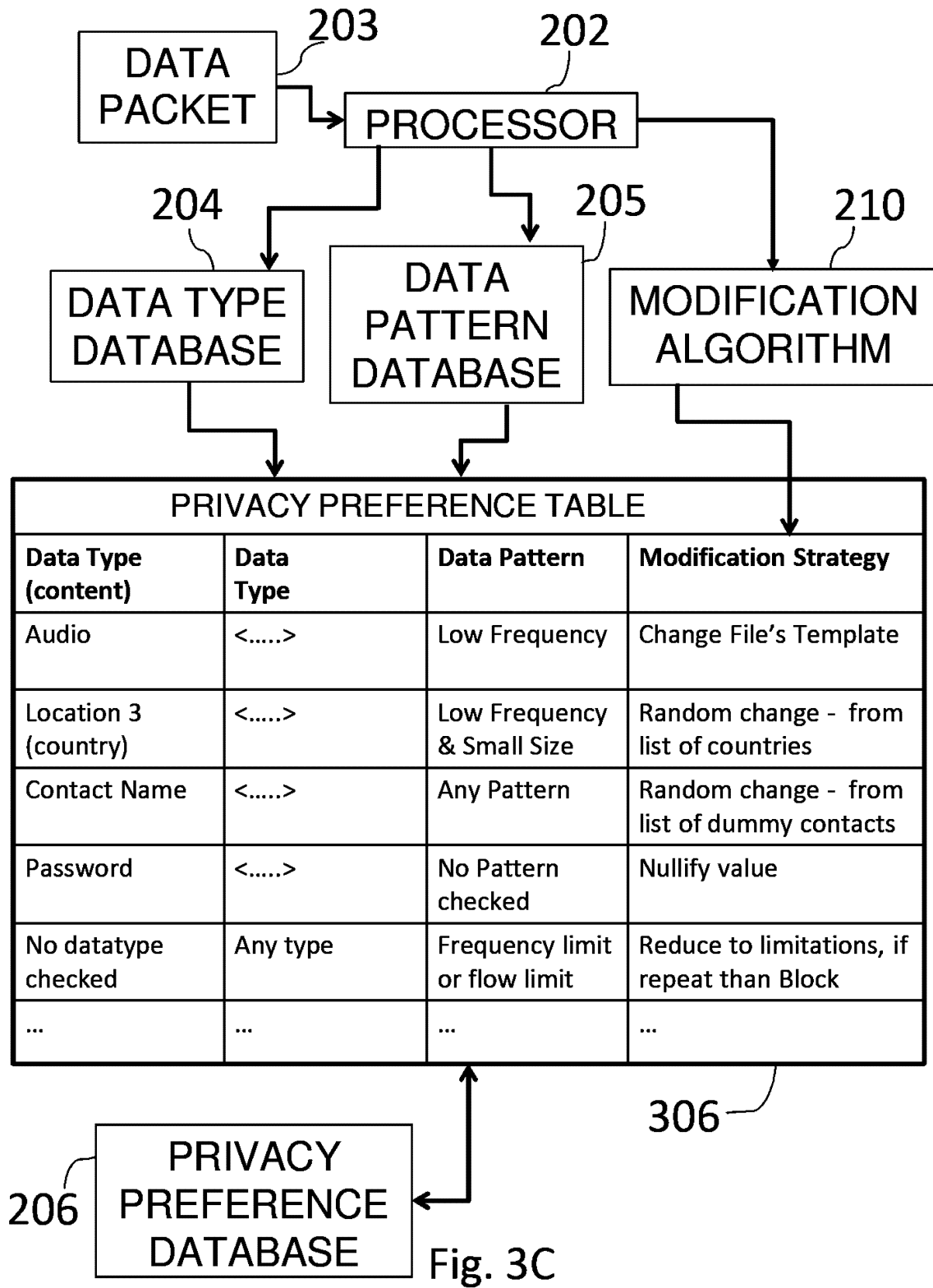


Fig. 3B



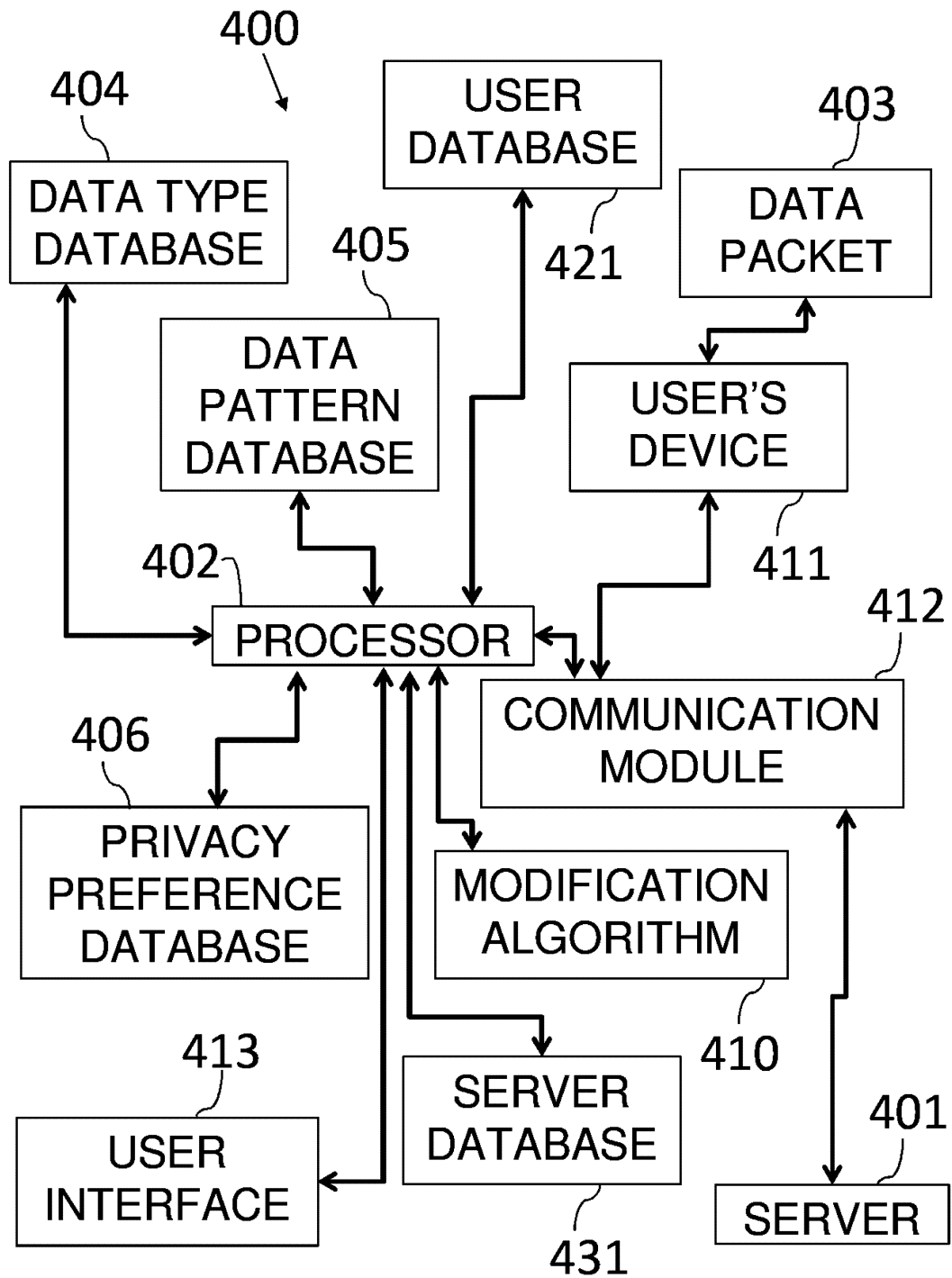


Fig. 4

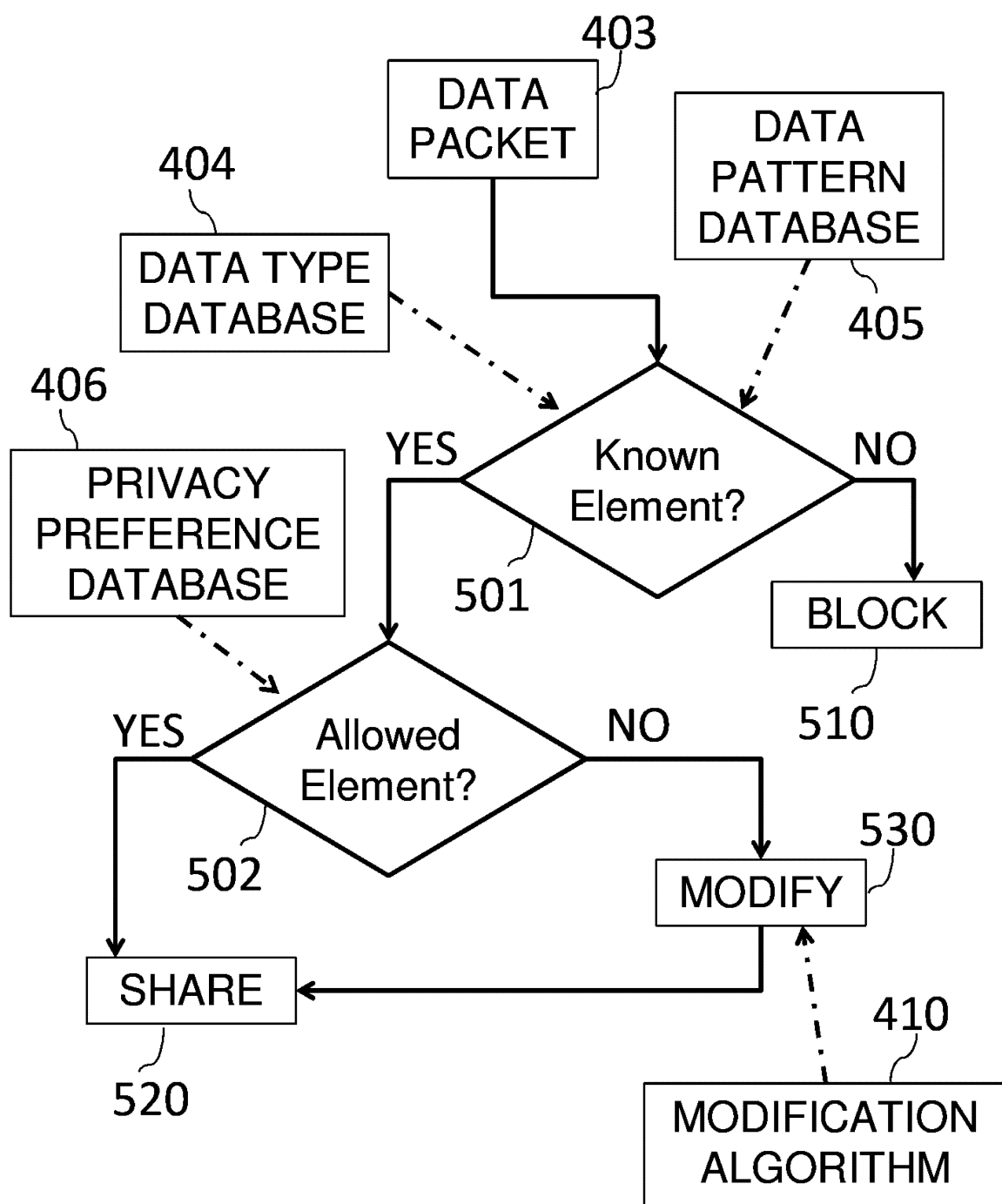


Fig. 5

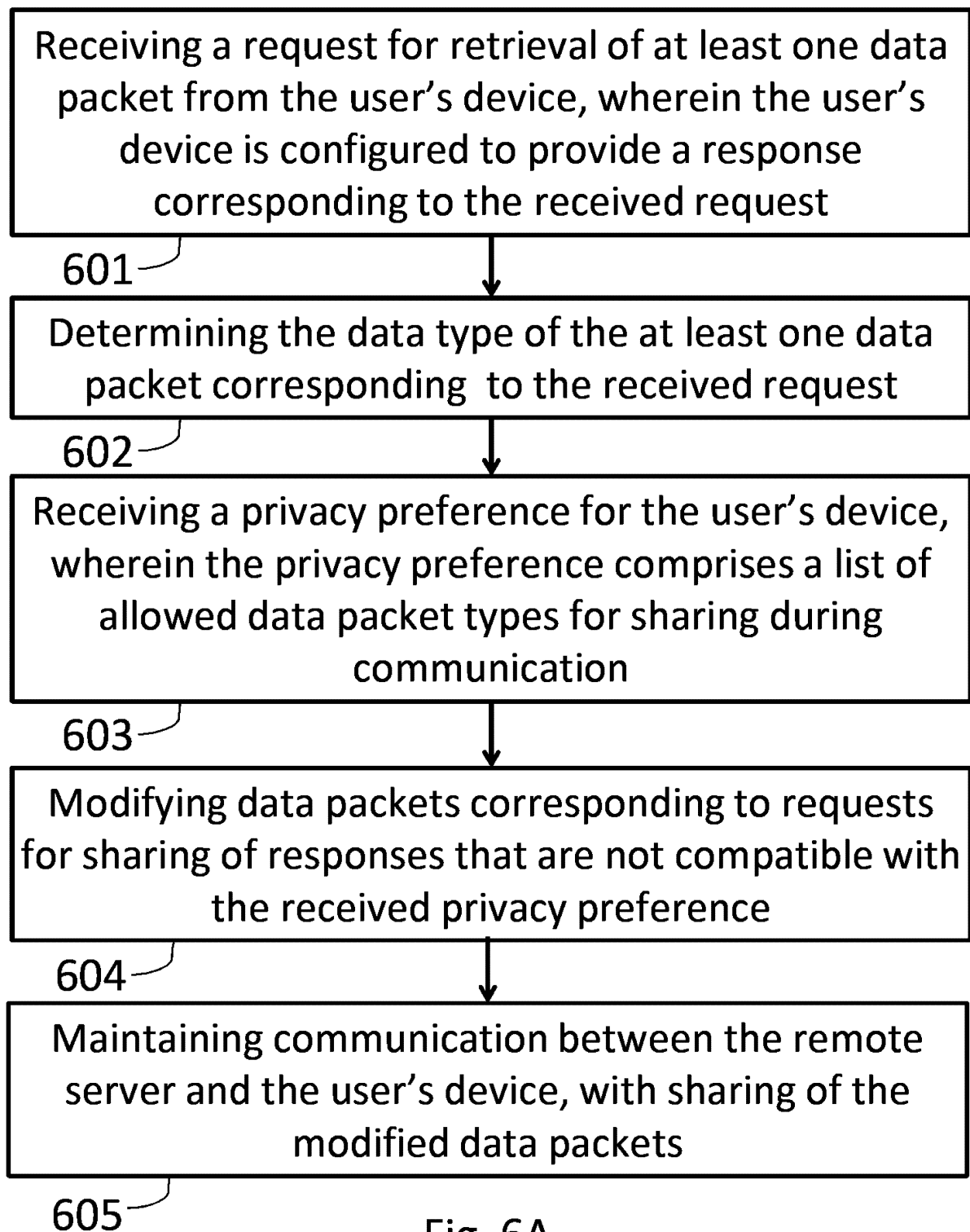


Fig. 6A

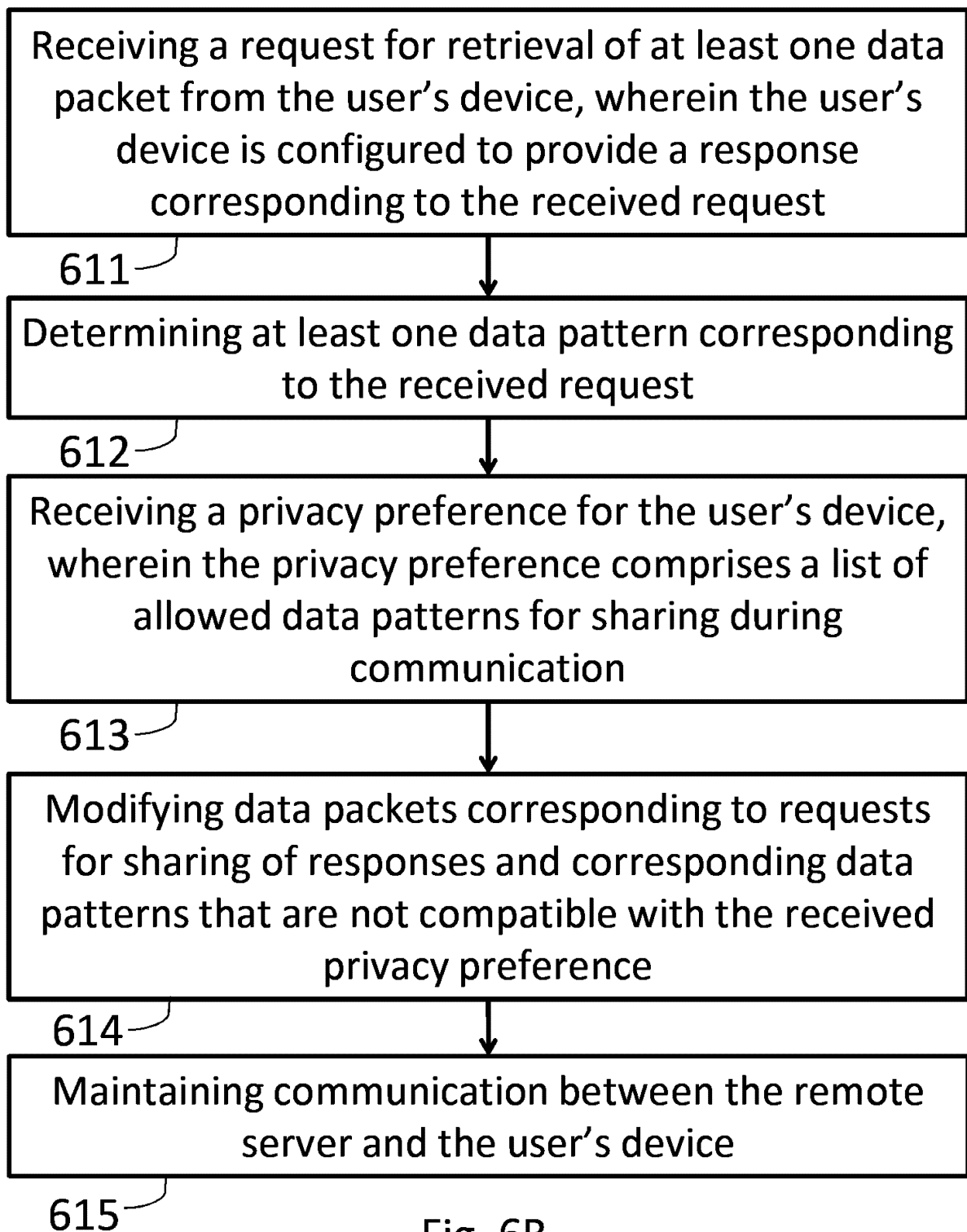


Fig. 6B

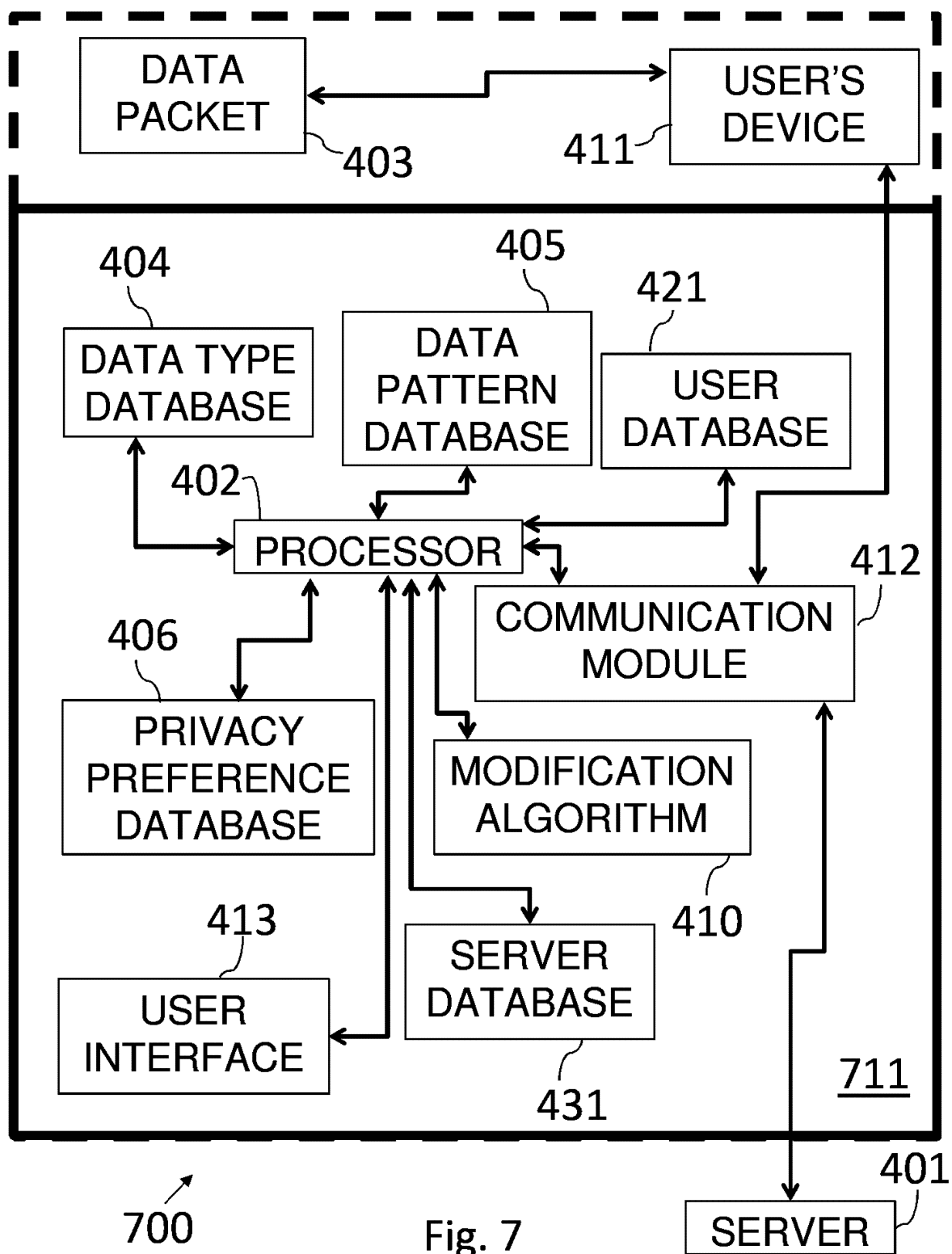


Fig. 7



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18/095,238	01/10/2023		1064	P-566702-US2	30	3

CONFIRMATION NO. 2028

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0000000053778806

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Assignment For Published Patent Application

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Power of Attorney: The patent practitioners associated with Customer Number 49443

Domestic Priority data as claimed by applicant

This application is a CON of 17/406,272 08/19/2021
which is a CON of 16/603,252 10/07/2019 PAT 11,106,824
which is a 371 of PCT/IL2018/050359 03/28/2018

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Projected Publication Date: 05/25/2023

Non-Publication Request: No

Early Publication Request: No

**** SMALL ENTITY ****

Title

SYSTEM AND METHOD FOR DYNAMIC MANAGEMENT OF PRIVATE DATA

Preliminary Class

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

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

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

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

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

For information on preventing theft of your intellectual property (patents, trademarks and copyrights), you may wish to consult the U.S. Government website, <http://www.stopfakes.gov>. Part of a Department of Commerce initiative, this website includes self-help "toolkits" giving innovators guidance on how to protect intellectual property in specific countries such as China, Korea and Mexico. For questions regarding patent enforcement issues, applicants may call the U.S. Government hotline at 1-866-999-HALT (1-866-999-4258).

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

GRANTED

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

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

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

NOT GRANTED

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

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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						Application or Docket Number 18/095,238				
Substitute for Form PTO-875										
APPLICATION AS FILED - PART I										
(Column 1)		(Column 2)		SMALL ENTITY		OR OTHER THAN SMALL ENTITY				
FOR	NUMBER FILED	NUMBER EXTRA	RATE(\$)	FEE(\$)		RATE(\$)	FEE(\$)			
BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A	N/A	64		N/A				
SEARCH FEE (37 CFR 1.16(k), (l), 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))	30	minus 20 = *	10	x 40 =	400	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					
			TOTAL	664		TOTAL				
* If the difference in column 1 is less than zero, enter "0" in column 2.										
APPLICATION AS AMENDED - PART II										
(Column 1)		(Column 2)		(Column 3)		SMALL ENTITY		OR OTHER THAN SMALL ENTITY		
AMENDMENT A	CLAIMS REMAINING AFTER AMENDMENT	MINUS	HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE(\$)	ADDITIONAL FEE(\$)		RATE(\$)	ADDITIONAL FEE(\$)	
	Total (37 CFR 1.16(i))	*	Minus	**	=	x =		OR	x =	
	Independent (37 CFR 1.16(h))	*	Minus	***	=	x =		OR	x =	
	Application Size Fee (37 CFR 1.16(s))							OR		
	FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							OR		
						TOTAL ADD'L FEE		OR	TOTAL ADD'L FEE	
AMENDMENT B	CLAIMS REMAINING AFTER AMENDMENT	MINUS	HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE(\$)	ADDITIONAL FEE(\$)		RATE(\$)	ADDITIONAL FEE(\$)	
	Total (37 CFR 1.16(i))	*	Minus	**	=	x =		OR	x =	
	Independent (37 CFR 1.16(h))	*	Minus	***	=	x =		OR	x =	
	Application Size Fee (37 CFR 1.16(s))							OR		
	FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							OR		
						TOTAL ADD'L FEE		OR	TOTAL ADD'L FEE	
* If the entry in column 1 is less than the entry in column 2, write "0" in column 3. ** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20". *** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3". The "Highest Number Previously Paid For" (Total or Independent) is the highest found in the appropriate box in column 1.										



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

Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>				Complete if Known	
				Application Number	18/095,238
				Filing Date	January 10, 2023
				First Named Inventor	Yoseph KOREN
				Art Unit	Not Yet Assigned
				Examiner Name	Not Yet Assigned
Sheet	1	of	1	Attorney Docket Number	P-566702-US2

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number Number-Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	1	US-6,775,780	Aug 10, 2004	Muttik	
	2	US-2017/0161499	Jun 8, 2017	Hentunen	
		US-			
		US-			
		US-			
		US-			
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		US-			

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document Country Code ³ Number ⁴ Kind Code ⁵ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
	3	WO 2016/146609	Sep 22, 2016	BRITISH TELECOMMUNICATIONS PUBLIC LIMITED COMPANY		☐
						☐
						☐
						☐
						☐
						☐

Examiner Signature		Date Considered	
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

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 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, 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 (1-800-786-9199) and select option 2

Electronic Acknowledgement Receipt	
EFS ID:	47432140
Application Number:	18095238
International Application Number:	
Confirmation Number:	2028
Title of Invention:	SYSTEM AND METHOD FOR DYNAMIC MANAGEMENT OF PRIVATE DATA
First Named Inventor/Applicant Name:	Yoseph KOREN
Customer Number:	49443
Filer:	Brendan S. Mee/Mark Soffer
Filer Authorized By:	Brendan S. Mee
Attorney Docket Number:	P-566702-US2
Receipt Date:	26-JAN-2023
Filing Date:	
Time Stamp:	13:10:59
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no
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File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Transmittal Letter	P-566702-US2-IDS-FORM-23JAN23.pdf	103201 b33044ef12cb0355b2d8a131c029cd8dcf4cb03	no	3

Warnings:

Information:					
2	Information Disclosure Statement (IDS) Form (SB08)	P-566702-US2-IDS- TABLE-23JAN23.pdf	117411	no	1
			baa143a652ce7f77fc90b0597f02e3c9a1bb7e4c		
Warnings:					
Information:					
This is not an USPTO supplied IDS fillable form					
3	Foreign Reference	REF-3-WO2016146609.pdf	4052571	no	70
			82760e0308a96d0293ffb03352a6f42e891b1d6c		
Warnings:					
Information:					
Total Files Size (in bytes):			4273183		
This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503. <u>New Applications Under 35 U.S.C. 111</u> If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application. <u>National Stage of an International Application under 35 U.S.C. 371</u> If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course. <u>New International Application Filed with the USPTO as a Receiving Office</u> If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.					

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Inventor(s):	Yoseph KOREN et al.	Examiner:	Not Yet Assigned
Serial No.:	18/095,238	Group Art Unit:	Not Yet Assigned
Filed:	January 10, 2023	Confirmation No.:	2028
Title:	SYSTEM AND METHOD FOR DYNAMIC MANAGEMENT OF PRIVATE DATA		

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

Sir/Madam:

INFORMATION DISCLOSURE STATEMENT

Pursuant to 37 C.F.R. §§1.56, 1.97 and 1.98, this Information Disclosure Statement includes Form PTO/SB/08:

1. ☒ listing documents including patents, publications and other information for consideration by the Examiner, however, since the subject application was filed after June 30, 2003, copies of United States patents and/or United States patent application publications are not included in this information disclosure statement; and/or
2. ☐ listing documents including patents, publications and other information that have been previously cited or submitted to the Patent Office in prior application U.S. Patent application No. _____, filed _____ which is properly identified and relied on for an earlier effective filing date under 35 U.S.C. 120 for consideration by the Examiner; however, in accordance with 37 C.F.R. 1.98(d), copies of such documents are not included in this information disclosure statement; and/or
3. ☒ listing documents including patents, publications, and other information for consideration by the Examiner, copies of which are included with this information disclosure statement;
4. ☐ listing documents including patents, publications, and other information for consideration by the Examiner, which were cited in a communication from a foreign patent office in a counterpart foreign application, copies of which are included with this information disclosure statement.

The information herein cited is only in fulfillment of Applicant(s) duty of candor in disclosing all information brought to Applicant(s) attention. This submission does not represent that a search has been made or that no better art exists and does not constitute an admission that each or all of the listed documents are material or constitute "prior art". If it should be determined that any of the listed documents do not constitute

"prior art" under United States law, Applicant(s) reserve the right to present to the office the relevant facts and law regarding the appropriate status of such documents.

Applicant(s) further reserve(s) the right to take appropriate action to establish the patentability of the disclosed invention over the listed documents, should one or more of the documents be applied against the claims of the present application.

In accordance with MPEP Sections 609 and 707.05(b), it is requested that each and every document cited (including any cited in applicant's specification which is not repeated on the attached Form PTO-1449) be given thorough consideration and that it be cited of record in the prosecution history of the present application by initialing on Form PTO-1449. Such initialing is requested even if the Examiner does not consider it to be prior art for any reason, or even if the Examiner does not believe that the guidelines for citation have been fully complied with. This is requested so that each document becomes listed on the face of the patent issuing on the present application and is evidence that the Examiner has considered the document. Neither the submission of the Information Disclosure Statement nor the content of any document cited herein constitutes a disclaimer of claim scope or an admission that any item submitted constitutes prior art.

This Information Disclosure Statement is being filed:

I) ☒ Within three (3) months of filing the subject Application or entry of the subject Application into the national stage; or before mailing of the first Office Action on the merits of the subject Application, whichever event occurs last; or before mailing of the first Office Action on the merits after filing a request for continued examination, pursuant to of 37 C.F.R §1.97 (b); or

II) ☐ After the period specified in (I) but before the mailing date of either a final Official Action under 37 C.F.R §1.113 or a notice of allowance under 37 C.F.R §1.311 whichever occurs first and;

1. ☐ the undersigned hereby states that each item of information listed on the Form PTO-1449 was either (i) cited in a communication from a foreign patent office in a counterpart foreign application not more than three (3) months prior to the filing of this Information Disclosure Statement or (ii) not cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the undersigned after making reasonable inquiry, not known to any individual designated in §1.56(c) more than three (3) months prior to the filing of this information disclosure statement; or

2. ☐ the fee in the amount of \$130 (Small Entity) under 37 C.F.R §1.17 (p) is being paid by credit card (note deposit account information below in the event of lack of credit card payment).

III) ☐ After the period in (I) and (II) but before the payment of the issue fee and,

1. The undersigned hereby states:

- a) ☐ that each item of information cited on the form PTO-1449 was first cited in a communication from a foreign Patent Office in a counterpart foreign application not more than three (3) months prior to the filing of this Information Disclosure Statement; or
- b) ☐ that no items of information contained in Form PTO-1449 were cited in a communication from a foreign patent office in a counterpart foreign application, and to the knowledge of the undersigned after making reasonable inquiry, no item of information contained in this Information Disclosure Statement was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this Information Disclosure Statement; and
2. ☐ The Petition fee in the amount of \$130 (Small Entity) under 37 C.F.R. §1.17 is being paid by credit card (note deposit account information below in the event of lack of credit card payment).

To the extent that there are any fees associated with this filing that are due but are not paid or are not able to be paid by a credit card mentioned elsewhere in this document, Applicants authorize the U.S. Patent and Trademark Office to charge any such fees to deposit account No. **60-2041**.

Respectfully submitted,

/Brendan Mee/
Brendan S. Mee
Attorney/Agent for Applicant(s)
Registration No. 43,391

Dated: January 26, 2023

Pearl Cohen Zedek Latzer Baratz LLP
7 Times Square, 19th Floor
New York, New York 10036
Tel: (646) 878-0800
Fax: (646) 878-0801

AUTHORIZATION FOR INTERNET COMMUNICATIONS IN A PATENT APPLICATION OR REQUEST TO WITHDRAW AUTHORIZATION FOR INTERNET COMMUNICATIONS	Application No.	Not yet assigned
	Filing Date	Herewith
	First Named Inventor	Yoseph KOREN
	Art Unit	Not yet assigned
	Examiner Name	Not yet assigned
	Practitioner Docket No.	P-566702-US2

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

I. To authorize permission for Internet Communications.

☒ Recognizing that Internet communications are not secure, I hereby authorize the USPTO to communicate with the undersigned and practitioners in accordance with 37 CFR 1.33 and 37 CFR 1.34 concerning any subject matter of this application via video conferencing, instant messaging, or electronic mail. I understand that a copy of these communications will be made of record in the application file. (MPEP 502.03)

II. To withdraw authorization for Internet Communications.

☐ The authorization given on _____, to the USPTO to communicate with the undersigned and any practitioner in accordance with 37 CFR 1.33 and 37 CFR 1.34 concerning any subject matter of this application via Internet communications such as video conferencing, instant messaging, or electronic mail is hereby withdrawn. I understand that the withdrawal is effective when approved rather than when received.

I am the

☐ applicant.

☒ attorney or agent of record. Registration number 43,391

☐ attorney or agent acting under 37 CFR 1.34. Registration number _____

/Brendan Mee/

Signature

10 January 2023
Date

Brendan S. Mee Reg. No. 43,391
Typed or printed name

(646) 878-0800
Telephone Number

NOTE: This form must be signed in accordance with 37 CFR 1.33. See 37 CFR 1.4 for signature requirements and certifications. Juristic entities must be represented by a patent practitioner (see 37 CFR 1.31, which is applicable to any paper filed on or after September 16, 2012, that is presented on behalf of a juristic entity, regardless of application filing date). Submit multiple forms if more than one signature is required, see below*.

☒ *Total of 1 forms are submitted.

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

First Named Inventor:	KOREN, Yoseph	Nonprovisional Application Number (if known):	
Title of Invention:	SYSTEM AND METHOD FOR DYNAMIC MANAGEMENT OF PRIVATE DATA		

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 /Brendan Mee/	Date January 10, 2023
Name (Print/Typed) Brendan S. Mee	Practitioner Registration Number 43,391
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 <u>1</u> forms are submitted.	

Electronic Patent Application Fee Transmittal				
Application Number:				
Filing Date:				
Title of Invention:		SYSTEM AND METHOD FOR DYNAMIC MANAGEMENT OF PRIVATE DATA		
First Named Inventor/Applicant Name:		Yoseph KOREN		
Filer:		Brendan S. Mee/Mark Soffer		
Attorney Docket Number:		P-566702-US2		
Filed as Small Entity				
Filing Fees for Track I Prioritized Examination - Nonprovisional Application under 35 USC 111(a)				
Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Basic Filing:				
UTILITY FILING FEE (ELECTRONIC FILING)	4011	1	64	64
UTILITY SEARCH FEE	2111	1	280	280
UTILITY EXAMINATION FEE	2311	1	320	320
REQUEST FOR PRIORITIZED EXAMINATION	2817	1	1680	1680
Pages:				
Claims:				
CLAIMS IN EXCESS OF 20	2202	10	40	400
Miscellaneous-Filing:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
PROCESSING FEE, EXCEPT PROV. APPLS.	2830	1	56	56
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				
Miscellaneous:				
Total in USD (\$)				2800

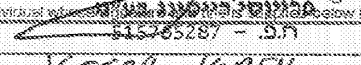
Electronic Acknowledgement Receipt	
EFS ID:	47347502
Application Number:	18095238
International Application Number:	
Confirmation Number:	2028
Title of Invention:	SYSTEM AND METHOD FOR DYNAMIC MANAGEMENT OF PRIVATE DATA
First Named Inventor/Applicant Name:	Yoseph KOREN
Customer Number:	49443
Filer:	Brendan S. Mee/Mark Soffer
Filer Authorized By:	Brendan S. Mee
Attorney Docket Number:	P-566702-US2
Receipt Date:	10-JAN-2023
Filing Date:	
Time Stamp:	15:22:49
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	CARD
Payment was successfully received in RAM	\$2800
RAM confirmation Number	E202310F24191748
Deposit Account	602041
Authorized User	Mark Soffer
The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows: 37 CFR 1.16 (National application filing, search, and examination fees) 37 CFR 1.17 (Patent application and reexamination processing fees)	

37 CFR 1.19 (Document supply fees)					
37 CFR 1.20 (Post Issuance fees)					
37 CFR 1.21 (Miscellaneous fees and charges)					
File Listing:					
Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1		P-566702-US2-U-APP-10JAN23.pdf	5161874	yes	65
			3fc7de6d9105bf68a2a77b9d8b5b85bd9b121ea6		
	Multipart Description/PDF files in .zip description				
	Document Description		Start	End	
	Transmittal of New Application		1	1	
	Specification		2	25	
	Claims		26	31	
	Abstract		32	32	
	Drawings-other than black and white line drawings		33	42	
	Oath or Declaration filed		43	44	
	Application Data Sheet		45	50	
	Assignee showing of ownership per 37 CFR 3.73		51	55	
	Power of Attorney		56	56	
	Transmittal Letter		57	60	
	Information Disclosure Statement (IDS) Form (SB08)		61	63	
	Internet Communications Authorization		64	64	
	Track One Request		65	65	
Warnings:					
Information:					

2	Fee Worksheet (SB06)	fee-info.pdf	51073 6ce5c5f51bba1ff1c8b00f11ec6af839b10d432d	no	2
Warnings:					
Information:					
Total Files Size (in bytes):			5212947		
This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503. <u>New Applications Under 35 U.S.C. 111</u> If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application. <u>National Stage of an International Application under 35 U.S.C. 371</u> If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course. <u>New International Application Filed with the USPTO as a Receiving Office</u> If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.					

POWER OF ATTORNEY TO PROSECUTE APPLICATIONS BEFORE THE USPTO			
I hereby revoke all previous powers of attorney given in the application identified in the attached statement under 37 CFR 3.73(c).			
I hereby appoint:			
☒ Practitioners associated with the Customer Number:		49443	
OR			
☐ Practitioner(s) named below (if more than ten patent practitioners are to be named, then a customer number must be used):			
Name Registration	Number	Name Registration	Number
as attorney(s) or agent(s) to represent the undersigned before the United States Patent and Trademark Office (USPTO) in connection with any and all patent applications assigned only to the undersigned according to the USPTO assignment records or assignment documents attached to this form in accordance with 37 CFR 3.73(c).			
Please change the correspondence address for the application identified in the attached statement under 37 CFR 3.73(c) to:			
☒ This address associated with Customer Number:		49443	
OR			
☐ Firm or Individual Name:	Pearl Cohen Zedek Latzer Baratz LLP		
Address	1500 Broadway, 12th Floor		
City	New York	State	NY
Country	USA		
Telephone	(346) 676-0800	Email	USPTO@PearlCohen.com
Assignee Name and Address: Privacy Rating Ltd. 91/33 Hagalil St. Ganey-Tikva 5591491 Israel			
A copy of this form, together with a statement under 37 CFR 3.73(n) (Form PTO/SB/56 or equivalent) is required to be filed in each application in which this form is used. The statement under 37 CFR 3.73(c) may be completed by one of the practitioners appointed in this form, and must identify the application in which this Power of Attorney is to be filed.			
Privacy Notice: The information on this form is collected by the USPTO for the purpose of processing applications for patent and trademark. The information is required to obtain or renew a benefit by the public which is to be filed 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 5 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 22312-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 4830, Alexandria, VA 22312-4830.			
The individual whose name is printed below is authorized to act on behalf of the assignee:			
Signature		Date	December 4, 2018
Name	JOSEPH KOREN	Telephone	+1-(201)(210)8879
Title	Co-Founder & CEO		

If you need assistance in completing the form, call 1-202-PTO-9199 and select option 2.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Inventor(s):	Yoseph KOREN et al.	Examiner:	Not Yet Assigned
Serial No.:	Not Yet Assigned	Group Art Unit:	Not yet Assigned
Filed:	Herewith	Confirmation No.:	Not yet Assigned
Title:	SYSTEM AND METHOD FOR DYNAMIC MANAGEMENT OF PRIVATE DATA		

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

Sir/Madam:

INFORMATION DISCLOSURE STATEMENT

Pursuant to 37 C.F.R. §§1.56, 1.97 and 1.98, this Information Disclosure Statement includes Form PTO/SB/08:

1. ☐ listing documents including patents, publications and other information for consideration by the Examiner, however, since the subject application was filed after June 30, 2003, copies of United States patents and/or United States patent application publications are not included in this information disclosure statement; and/or
2. ☒ listing documents including patents, publications and other information that have been previously cited or submitted to the Patent Office in prior application U.S. Patent application No. 17/406,272, filed August 19, 2021 which is properly identified and relied on for an earlier effective filing date under 35 U.S.C. 120 for consideration by the Examiner; however, in accordance with 37 C.F.R. 1.98(d), copies of such documents are not included in this information disclosure statement; and/or
3. ☐ listing documents including patents, publications, and other information for consideration by the Examiner, copies of which are included with this information disclosure statement;
4. ☐ listing documents including patents, publications, and other information for consideration by the Examiner, which were cited in a communication from a foreign patent office in a counterpart foreign application, copies of which are included with this information disclosure statement.

The information herein cited is only in fulfillment of Applicant(s) duty of candor in disclosing all information brought to Applicant(s) attention. This submission does not represent that a search has been made or that no better art exists and does not constitute an admission that each or all of the listed documents are material or constitute "prior art". If it should be determined that any of the listed documents do not constitute

"prior art" under United States law, Applicant(s) reserve the right to present to the office the relevant facts and law regarding the appropriate status of such documents.

Applicant(s) further reserve(s) the right to take appropriate action to establish the patentability of the disclosed invention over the listed documents, should one or more of the documents be applied against the claims of the present application.

In accordance with MPEP Sections 609 and 707.05(b), it is requested that each and every document cited (including any cited in applicant's specification which is not repeated on the attached Form PTO-1449) be given thorough consideration and that it be cited of record in the prosecution history of the present application by initialing on Form PTO-1449. Such initialing is requested even if the Examiner does not consider it to be prior art for any reason, or even if the Examiner does not believe that the guidelines for citation have been fully complied with. This is requested so that each document becomes listed on the face of the patent issuing on the present application and is evidence that the Examiner has considered the document. Neither the submission of the Information Disclosure Statement nor the content of any document cited herein constitutes a disclaimer of claim scope or an admission that any item submitted constitutes prior art.

This Information Disclosure Statement is being filed:

I) ☒ Within three (3) months of filing the subject Application or entry of the subject Application into the national stage; or before mailing of the first Office Action on the merits of the subject Application, whichever event occurs last; or before mailing of the first Office Action on the merits after filing a request for continued examination, pursuant to of 37 C.F.R §1.97 (b); or

II) ☐ After the period specified in (I) but before the mailing date of either a final Official Action under 37 C.F.R §1.113 or a notice of allowance under 37 C.F.R §1.311 whichever occurs first and;

1. ☐ the undersigned hereby states that each item of information listed on the Form PTO-1449 was either (i) cited in a communication from a foreign patent office in a counterpart foreign application not more than three (3) months prior to the filing of this Information Disclosure Statement or (ii) not cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the undersigned after making reasonable inquiry, not known to any individual designated in §1.56(c) more than three (3) months prior to the filing of this information disclosure statement; or

2. ☐ the fee in the amount of \$130 (Small Entity) under 37 C.F.R §1.17 (p) is being paid by credit card (note deposit account information below in the event of lack of credit card payment).

III) ☐ After the period in (I) and (II) but before the payment of the issue fee and,

1. The undersigned hereby states:

- a) ☐ that each item of information cited on the form PTO-1449 was first cited in a communication from a foreign Patent Office in a counterpart foreign application not more than three (3) months prior to the filing of this Information Disclosure Statement; or
- b) ☐ that no items of information contained in Form PTO-1449 were cited in a communication from a foreign patent office in a counterpart foreign application, and to the knowledge of the undersigned after making reasonable inquiry, no item of information contained in this Information Disclosure Statement was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this Information Disclosure Statement; and
2. ☐ The Petition fee in the amount of \$130 (Small Entity) under 37 C.F.R. §1.17 is being paid by credit card (note deposit account information below in the event of lack of credit card payment).

To the extent that there are any fees associated with this filing that are due but are not paid or are not able to be paid by a credit card mentioned elsewhere in this document, Applicants authorize the U.S. Patent and Trademark Office to charge any such fees to deposit account No. **60-2041**.

Respectfully submitted,

/Brendan Mee/
Brendan S. Mee
Attorney/Agent for Applicant(s)
Registration No. 43,391

Dated: January 10, 2023

Pearl Cohen Zedek Latzer Baratz LLP
7 Times Square, 19th Floor
New York, New York 10036
Tel: (646) 878-0800
Fax: (646) 878-0801

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Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>				Complete if Known	
				Application Number	Not Yet Assigned
				Filing Date	Herewith
				First Named Inventor	Yoseph KOREN
				Art Unit	Not Yet Assigned
				Examiner Name	Not Yet Assigned
Sheet	1	of	2	Attorney Docket Number	P-566702-US2

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number Number-Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	1	US-7,690,040	Mar 30, 2010	Frattura et al.	
	2	US-10,454,961	Oct 22, 2019	Frayman et al.	
		US-			
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FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document Country Code ³ Number ⁴ Kind Code ⁵ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
	3	KR101503009 B1	Oct 14, 2014	SECUI CORP		☒
	4	JP4887081 B2	Feb 29, 2012	KDDI R&D LABORATORIES INC		☒
	5	JP3957712 B2	Aug 15, 2007	OKI ELECTRIC IND CO LTD		☒
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Examiner Signature	Date Considered
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

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Substitute for form 1449A/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				Application Number	Not Yet Assigned
				Filing Date	Herewith
				First Named Inventor	Yoseph KOREN
				Art Unit	Not Yet Assigned
				Examiner Name	Not Yet Assigned
Sheet	1	of	2	Attorney Docket Number	P-566702-US2

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	2	US-10,454,961	Oct 22, 2019	Frayman et al.	
		US-			
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	4	JP4887081 B2	Feb 29, 2012	KDDI R&D LABORATORIES INC		☒
	5	JP3957712 B2	Aug 15, 2007	OKI ELECTRIC IND CO LTD		☒
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						☐
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Examiner Signature	Date Considered
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Substitute for form 1449B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>				Complete if Known	
				Application Number	Not Yet Assigned
				Filing Date	Herewith
				First Named Inventor	Yoseph KOREN
				Art Unit	Not Yet Assigned
<i>(use as many sheets as necessary)</i>				Examiner Name	Not Yet assigned
Sheet	2	of	2	Attorney Docket Number	P-566702-US2

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (where appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	6	Akira YAMADA et al; " Intrusion Detection for Encrypted Web Accesses"; published in 21st International Conference on Advanced Information Networking and Applications Workshops (AINAW07); Date 21-23 May 2007	☐
	7	Blake ANDERSON et al; " Deciphering Malware's use of TLS (without Decryption)"; published in Journal of computer Virology and Hacking Techniques, 195-211; Date 31 August 2017	☐
	8	Arnon SHIMONI et al; " Malicious traffic detection using traffic fingerprint"; published in Article (CrossRef Link); dated 2014	☐
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Examiner Signature		Date Considered	
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				Application Number	Not Yet Assigned
				Filing Date	Herewith
				First Named Inventor	Yoseph KOREN
				Art Unit	Not Yet Assigned
				Examiner Name	Not Yet Assigned
Sheet	1	of	2	Attorney Docket Number	P-566702-US2

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number Number-Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	1	US-2010/0058054	Mar. 4, 2010	IRVINE	
	2	US-2012/0222083	Aug. 30, 2012	VAHA-SIPLA et al.	
	3	US-2012/0005720	Jan. 5, 2020	MCGLOIN et al.	
	4	US-2013/0318347	Nov. 28, 2013	MOFFAT	
	5	US-2013/0305044	Nov. 14, 2013	GUTT et al.	
	6	US-2014/0259147	Sep. 11, 2014	L'HEUREUX et al.	
	7	US-2014/0331054	Nov. 6, 2014	HANUMANTHARAYAPPA et al.	
	8	US-2017/0098215	Apr. 6, 2017	BROTSKY et al.	
	9	US-2017/0041297	Feb. 9, 2017	LING et al.	
	10	US-2018/0359811	Dec. 13, 2018	VERZUN et al.	
	11	US-2019/0149523	May 16, 2019	SHIN et al.	
	12	US-2019/0034826	Jan. 31, 2019	AHMAD et al.	
	13	US-6,965,992	Nov. 15, 2005	JOSEPH et al.	
	14	US-7,231,027	Jun. 12, 2007	SCHMID et al.	
	15	US-8,724,553	May 13, 2014	WENIGER et al.	
	16	US-9,477,836	Oct. 25, 2016	RAMAM et al.	
	17	US-9,609,025	Mar. 28, 2017	BETZLER et al.	
	18	US-10,348,715	Jul. 9, 2019	ROSS et al.	
	19	US-10,277,614	Apr. 30, 2019	KOIDE et al.	

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document Country Code ³ Number ⁴ Kind Code ⁵ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
	20	WO 2013/103782	Jul. 11, 2013	3M Innovative Properties Co.		☐
	21	WO 2014/031041	Feb. 27, 2014	Telefonaktiebolaget L M Ericsson		☐
						☐
						☐
						☐

Examiner Signature	Date Considered
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				Application Number	Not Yet Assigned
				Filing Date	Herewith
				First Named Inventor	Yoseph KOREN
				Art Unit	Not Yet Assigned
<i>(use as many sheets as necessary)</i>				Examiner Name	Not Yet Assigned
Sheet	2	of	2	Attorney Docket Number	P-566702-US2

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (where appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	22	International Search Report of PCT Application No. PCT/IL2018/050359 mailed on July 12, 2018	☐
	23	Office Action for Israeli Application No. 251683, mailed on July 31, 2018	☐
	24	Office Action for Israeli Application No. 251683, mailed on September 26, 2017	☐
	25	Supplementary European Search Report for Application No. EP 18785029, mailed on September 24, 2020	☐
	26	Office Action for US Application No. 16/603,252 mailed on September 28, 2020	☐
	27	Office Action for US Application No. 16/603,252 mailed on January 29, 2021	☐
	28	Notice of Allowance for US Application No. 16/603,252 mailed on April 29, 2021	☐
	29	Antônio Casimiro et al. "Proceedings of the Workshop on Secure and Dependable Middleware for Cloud Monitoring and Management" The Association for Computing Machinery, Inc, December 3, 2012	☐
	30	Hoang T. Dinh et al. "A survey of mobile cloud computing: Architecture, applications, and approaches Wireless Communications and Mobile Computing 13(18), December 2013	☐
	31	Bolin BING et al. "Differentially Private Data Cubes: Optimizing Noise Sources and Consistency" Proceedings of the 2011 ACM SIGMOD, pages 217-228, June 2011	☐
	32	ANDERSON et al. "Identifying Encrypted Malware Traffic with Contextual Flow Data" Conference: the 2016 ACM Workshop, October 2016	☐

Examiner Signature	Date Considered
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language translation is attached.

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 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20593-1400.

UTILITY PATENT APPLICATION TRANSMITTAL <i>(Only for new nonprovisional applications under 37 CFR 1.53(b))</i>	Attorney Docket No.	P-566702-US2
	First Inventor	Yoseph KOREN
	Title	SYSTEM AND METHOD FOR DYNAMIC MANAGEMENT OF PRIVATE DATA
	Priority Mail Express® Label No.	

APPLICATION ELEMENTS <i>See MPEP chapter 600 concerning patent application contents.</i>	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 31] 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 10] 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 C.F.R. 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: <u>Authorization for Internet Communications (PTO-439)</u> <u>Track 1 Request (PTO/AIA/424)</u> _____ _____ _____ _____ _____

***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).

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To the extent that there are any fees associated with this filing that are due but are not paid or are not able to be paid by a credit card mentioned elsewhere in this document, Applicants authorize the U.S. Patent and Trademark Office to charge any such fees, except for excess claims fees required under 37 CFR 1.16(h) and (i) and multiple dependent claim fee required under 37 CFR 1.16(j), to Deposit Account No. 60-2041				
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SYSTEM AND METHOD FOR DYNAMIC MANAGEMENT OF PRIVATE DATA

CROSS REFERENCE TO RELATED APPLICATION

[001] This application is a continuation of US Patent Application No. 17/406,272, filed August 19, 2021, which is a continuation of US Patent Application No. 16/603,252, filed October 7, 2019 US Patent No. 11,106,824, which is a national phase of PCT International Patent Application No. PCT/IL2018/050359, filed March 28, 2018, which claims priority from Israel Patent Application No. 251683, filed April 9, 2018, each of which is incorporated herein by reference.

FIELD OF THE INVENTION

[002] The present invention relates to data management. More particularly, the present invention relates to systems and methods for dynamic management of private data.

BACKGROUND OF THE INVENTION

[003] During communication with external remote servers different types of data are automatically (and uncontrollably) shared, sometimes without the knowledge of the user (e.g., the owner of the data). There are currently only limited ways for the user to manage which data should be shared, with which parties, and at what time periods and/or under what circumstances such that privacy agreements cannot be fully enforced. For example, securing private elements of a user's device engaging in a transaction with a service provider, has been a challenge for many years with the rapid development of computer technology.

[004] In recent years, an increasing number of communication sessions are being biased (in terms of shared data and application usage) toward one party which is advantageous due to technological superiority, formal regulation power, and/or any other item. Such biasing may occur due to rapid development of communication related software, as well as due to development of computer technology.

[005] Social network service providers usually collect user (private) data, for example collect user's online habits. Data collection is usually carried out by a service provider requesting to share user's (private) information while the user's device automatically shares the requested information accordingly. Actions are executed by dedicated software (e.g.,

social plug in), which upload data requests when visiting web sites and/or applications. Such requests may be direct script by the service provider (e.g. cookie etc.), or indirect script hidden within links to other (partner) application provider (e.g. social plug-in, SDK, API etc.). While some devices allow blocking collection of certain private parameters, for example the location, only data emerging from sensors, such as global positioning system (GPS) sensors, can be managed by user while other sources of location (e.g. mobile network, IP provider, country, time zone) cannot be controlled so that in that case location information can still be collected. Thus, location information can be collected while bypassing the instructions of the user (e.g., collecting location from cellular carrier data). Other examples from the same nature may include retrieving form data, retrieving data from flash memory and several other items which do not have the full (or partial) ability to disable and/or block data collection. Some service providers can also collect user data in order to transfer and/or sell to third parties (e.g., to present dedicated ads in the future). Another example may be avoiding biased exchange of information both from the user and the service provider perspectives.

SUMMARY OF THE INVENTION

[006] There is thus provided, in accordance with some embodiments of the invention, a method of dynamic management of private data during communication between a remote server and a user's device, the method including receiving, by the user's device, a request for retrieval of at least one data packet from the user's device, wherein the user's device is configured to provide a response corresponding to the received request, determining, by the user's device, the data type of the at least one data packet corresponding to the received request, receiving, by the user's device, a privacy preference for the user's device, wherein the privacy preference includes a list of allowed data packet types for sharing during communication, modifying data packets corresponding to requests for sharing of responses that are not compatible with the received privacy preference, and maintaining communication between the remote server and the user's device, with sharing of the modified data packets.

[007] In some embodiments, the type of the at least one data packet may be determined from metadata of communication with the remote server. In some embodiments, the method further includes determining, by the user's device, pattern of at least one response

corresponding to the received request, and modifying data packets corresponding to requests for sharing of responses, corresponding to at least one data pattern, that are not compatible with the received privacy preference, wherein the privacy preference includes a list of allowed data patterns for sharing during communication. In some embodiments, the user's device includes a database with at least one data packet type corresponding to a request for sharing of data packets from the user's device, and wherein the type of data packets is determined from the database.

[008] In some embodiments, the method further includes linking at least one response to a type of data packet from the user's device, wherein the linking is based on the type and pattern of the at least one response. In some embodiments, the method further includes identifying a response corresponding to a request for sharing of data packets, wherein the identified response is not compatible with the received privacy preference, and providing a response with at least one modified data packet corresponding to the request for sharing types of data packets. In some embodiments, the modification of the at least one modified data packet is selected from the group consisting of data nullification, blocking, data randomization, content modification, change of encoding, change of file template, change of header, change of footer, addition of a predetermined data packet and encryption.

[009] In some embodiments, the method further includes identifying a communication pattern between the server and the user's device, wherein the communication pattern includes at least one request for retrieval of at least one data packet from the user's device and corresponding responses, and issuing an alert upon detection of a change in the identified communication pattern.

[010] In some embodiments, data packets from the user's device are selected from the group consisting of user's device files, user's device characteristics, user's device indirect attributes, user's device sensor data, user's device browser data, user's device form data, user's device dynamic memory and user's device static memory.

[011] There is thus provided, in accordance with some embodiments of the invention, a method of dynamic management of private data during communication between a remote server and a user's device, the method including receiving, by the user's device, a request for retrieval of at least one data packet from the user's device, wherein the user's device is configured to provide a response corresponding to the received request, determining, by the user's device, at least one data pattern corresponding to the received request, receiving, by

the user's device, a privacy preference for the user's device, wherein the privacy preference includes a list of allowed data patterns for sharing during communication, modifying data packets corresponding to requests for sharing of responses and corresponding data patterns that are not compatible with the received privacy preference, and maintaining communication between the remote server and the user's device, with sharing of the modified responses.

[012] In some embodiments, the pattern of the at least one response is determined from metadata of communication with the remote server. In some embodiments, the method further includes determining, by the user's device, the type of the at least one data packet of the received request, and modifying data packets corresponding to requests for sharing of responses and corresponding data patterns, corresponding to at least one data packet type, that are not compatible with the received privacy preference, wherein the privacy preference includes a list of allowed data packet types for sharing during communication.

[013] In some embodiments, the user's device includes a database with at least one data pattern corresponding to a request for sharing of data packets from the user's device, and wherein the at least one data pattern compatible with the received request is determined from the database. In some embodiments, the method further includes determining, by the user's device, the type of the at least one data packet of the received request, and linking at least one data pattern to a type of data packet from the user's device, wherein the linking is based on the pattern of the at least one response.

[014] In some embodiments, the method further includes identifying a data pattern corresponding to a request for sharing of data packet types, wherein the identified data pattern is not compatible with the received privacy preference, and providing a response with at least one modified data packet corresponding to the request for sharing types of data packets. In some embodiments, the modification of the at least one modified data packet is selected from the group consisting of data nullification, blocking, data randomization, content modification, change of encoding, change of file template, change of header, change of footer, addition of a predetermined data packet and encryption.

[015] In some embodiments, the method further includes issuing an alert upon detection of a request for sharing data packets, wherein the detected request does not correspond to at least one of data type and data pattern that is compatible with the received privacy preference. In some embodiments, the method further includes identifying a communication

pattern between the server and the user's device, wherein the communication pattern includes at least one request for retrieval of at least one data packet from the user's device and corresponding responses, and issuing an alert upon detection of a change in the identified communication pattern.

[016] In some embodiments, data packets from the user's device are selected from the group consisting of user's device files, user's device characteristics, user's device indirect attributes, user's device sensor data, user's device browser data, user's device form data, user's device dynamic memory and user's device static memory.

[017] There is thus provided, in accordance with some embodiments of the invention, a system for dynamic management of private data during communication between a remote server and at least one user's device, the system including a data type database, including at least one data type corresponding to sharing of at least one data packet from the user's device, a privacy preference database, including a list of allowed types of data packets for sharing during communication with the at least one user's device, a communication module, to allow communication between the remote server and the at least one user's device, and a processor, coupled to the response database and to the privacy preference database, wherein the processor is configured to determine at least one data type for sharing of data packet that is compatible with the list of allowed patterns of data packets for sharing.

[018] In some embodiments, the system further includes a user interface to issue an alert upon detection of a request for retrieval of data packets that is not compatible with the privacy preference. In some embodiments, the system further includes a data pattern database, coupled to the processor, wherein the processor is configured to modify data packets corresponding to requests for retrieval of data packets and data types that are not compatible with data patterns from a data pattern database.

[019] In some embodiments, data packets from the user's device are selected from the group consisting of user's device files, user's device characteristics, user's device indirect attributes, user's device sensor data, user's device browser data, user's device form data, user's device dynamic memory and user's device static memory. In some embodiments, at least the communication module and the processor are embedded on a single hardware component.

BRIEF DESCRIPTION OF THE DRAWINGS

[020] The subject matter regarded as the invention is particularly pointed out and distinctly claimed in the concluding portion of the specification. The invention, however, both as to organization and method of operation, together with objects, features, and advantages thereof, may best be understood by reference to the following detailed description when read with the accompanying drawings in which:

[021] Fig. 1 shows a schematic block diagram of an exemplary computing device, according to some embodiments of the invention;

[022] Fig. 2 schematically illustrates a data mapping system, according to some embodiments of the invention;

[023] Fig. 3A schematically illustrates exemplary mapping of data type database, according to some embodiments of the invention;

[024] Fig. 3B schematically illustrates exemplary mapping of data pattern database, according to some embodiments of the invention;

[025] Fig. 3C schematically illustrates exemplary mapping of privacy preference table, according to some embodiments of the invention;

[026] Fig. 4 schematically illustrates a data management system, according to some embodiments of the invention;

[027] Fig. 5 shows a flowchart for a method of management of data packets with a sharing algorithm during communication between a remote server and a user's device, according to some embodiments of the invention;

[028] Figs. 6A-6B show flowcharts for a method of dynamic management of private data during communication between a remote server and a user's device, according to some embodiments of the invention; and

[029] Fig. 7 schematically illustrates a data management system 700 for dynamic management of private data that is embedded on a hardware component, according to some embodiments of the invention.

[030] It will be appreciated that for simplicity and clarity of illustration, elements shown in the figures have not necessarily been drawn to scale. For example, the dimensions of some of the elements may be exaggerated relative to other elements for clarity. Further, where considered appropriate, reference numerals may be repeated among the figures to indicate corresponding or analogous elements.

DETAILED DESCRIPTION OF THE INVENTION

[031] In the following detailed description, numerous specific details are set forth in order to provide a thorough understanding of the invention. However, it will be understood by those skilled in the art that the present invention may be practiced without these specific details. In other instances, well-known methods, procedures, and components have not been described in detail so as not to obscure the present invention.

[032] Although embodiments of the invention are not limited in this regard, discussions utilizing terms such as, for example, “processing,” “computing,” “calculating,” “determining,” “establishing,” “analyzing,” “checking,” or the like, may refer to operation(s) and/or process(es) of a computer, a computing platform, a computing system, or other electronic computing device, that manipulates and/or transforms data represented as physical (e.g., electronic) quantities within the computer’s registers and/or memories into other data similarly represented as physical quantities within the computer’s registers and/or memories or other information non-transitory storage medium that may store instructions to perform operations and/or processes. Although embodiments of the invention are not limited in this regard, the terms “plurality” and “a plurality” as used herein may include, for example, “multiple” or “two or more”. The terms “plurality” or “a plurality” may be used throughout the specification to describe two or more components, devices, elements, units, parameters, or the like. Unless explicitly stated, the method embodiments described herein are not constrained to a particular order or sequence. Additionally, some of the described method embodiments or elements thereof can occur or be performed simultaneously, at the same point in time, or concurrently.

[033] Reference is made to Fig. 1, showing a schematic block diagram of an exemplary computing device, according to embodiments of the present invention. Computing device 100 may include a controller 105 that may be, for example, a central processing unit processor (CPU), special purpose processor such as a graphic processing unit (GPU), communication control processing (CCP), a chip or any suitable computing or computational device, an operating system 115, a memory 120, a storage 130, an input devices 135 and an output device 140. Controller 105 may be configured to carry out methods as disclosed herein by for example executing code or software.

[034] Operating system 115 may be or may include any code segment designed and/or configured to perform tasks involving coordination, scheduling, arbitration, supervising,

controlling or otherwise managing operation of computing device 100, for example, scheduling execution of programs. Operating system 115 may be a commercial operating system. Memory 120 may be or may include, for example, a Random Access Memory (RAM), a read only memory (ROM), a Dynamic RAM (DRAM), a Synchronous DRAM (SD-RAM), a double data rate (DDR) memory chip, a Flash memory, a volatile memory, a non-volatile memory, a cache memory, a buffer, a short term memory unit, a long term memory unit, or other suitable memory units or storage units. Memory 120 may be or may include a plurality of, possibly different memory units.

[035] Executable code 125 may be any executable code, e.g., an application, a program, a process, automated task, software bots configured to manage data communication and user data collection (e.g., botnet), software adapted to perform artificial intelligence (AI), e.g. machine learning, deep learning, task or script. Executable code 125 may be executed by controller 105 possibly under control of operating system 115. Where applicable, executable code 125 may carry out operations described herein in real-time. Computing device 100 and executable code 125 may be configured to update, process and/or act upon information at the same rate the information, or a relevant event, are received. In some embodiments, more than one computing device 100 may be used. For example, a plurality of computing devices (in serial and/or parallel) that include components similar to those included in computing device 100 may be connected to a network and used as a system.

[036] Storage 130 may be or may include, for example, a hard disk drive, a universal serial bus (USB) device or other suitable removable and/or fixed storage unit. Content may be stored in storage 130 and may be loaded from storage 130 into memory 120 and may be stored in read only memory (ROM) to be loaded into memory 120 where it may be processed by controller 105. In some embodiments, some of the components shown in Fig. 1 may be omitted. For example, memory 120 may be a non-volatile memory having the storage capacity of storage 130. Accordingly, although shown as a separate component, storage 130 may be embedded or included in memory 120.

[037] Input devices 135 may be or may include a mouse, a keyboard, a touch screen or pad or any suitable input device. In some embodiments, computing device 100 receives input from a sensor such as global positioning system (GPS), camera, microphone, accelerometer, light sensor, compass, and any other sensor. It will be recognized that any suitable number of input devices may be operatively connected to computing device 100 as shown by block

135. Output devices 140 may include one or more displays, indicators, speakers, haptic output and/or any other suitable output devices. It will be recognized that any suitable number of output devices may be operatively connected to computing device 100 as shown by block 140. Any applicable input/output (I/O) devices may be connected to computing device 100 as shown by blocks 135 and 140. For example, a wired or wireless network interface card (NIC), a modem, a universal serial bus (USB) device or external hard drive, cellular network connection, optical network connection, Bluetooth, and NFC may be included in input devices 135 and/or output devices 140.

[038] Embodiments of the invention may include an article such as a computer or processor non-transitory readable medium, or a computer or processor non-transitory storage medium, such as for example a memory, a disk drive, or a USB flash memory, encoding, including or storing instructions, e.g., computer-executable instructions, which, when executed by a processor or controller, carry out methods disclosed herein. For example, a storage medium such as memory 120, computer-executable instructions such as executable code 125 and a controller such as controller 105.

[039] Some embodiments may be provided in a computer program product that may include a non-transitory machine-readable medium, with instructions stored thereon, which may be used to program a computer, or other programmable devices, to perform methods as disclosed herein. Embodiments of the invention may include an article such as a computer or processor non-transitory readable medium, or a computer or processor non-transitory storage medium, such as for example a memory, a disk drive, or a USB flash memory, encoding, including or storing instructions, e.g., computer-executable instructions, which when executed by a processor or controller, carry out methods disclosed herein. The storage medium may include, but is not limited to, any type of disk including magneto-optical disks, semiconductor devices such as read-only memories (ROMs), random access memories (RAMs), such as a dynamic RAM (DRAM), erasable programmable read-only memories (EPROMs), flash memories, electrically erasable programmable read-only memories (EEPROMs), magnetic or optical cards, or any type of media suitable for storing electronic instructions, including programmable storage devices.

[040] A system according to embodiments of the invention may include components such as, but not limited to, a plurality of central processing units (CPU) or any other suitable multi-purpose or specific processors or controllers, a plurality of input units, a plurality of

output units, a plurality of memory units, and a plurality of storage units. A system may additionally include other suitable hardware components and/or software components. In some embodiments, a system may include or may be, for example, a personal computer, a desktop computer, a mobile computer, a laptop computer, a notebook computer, a terminal, a workstation, a server computer, a Personal Digital Assistant (PDA) device, a tablet computer, a network device, a smartphone, IOT device, action specific computerized machine (such as a dedicated robot) or any other suitable computing device. Unless explicitly stated, the method embodiments described herein are not constrained to a particular order or sequence. Additionally, some of the described method embodiments or elements thereof can occur or be performed at the same point in time.

[041] Reference is now made to Fig. 2, which schematically illustrates a data mapping system 200 for mapping of private data during communication with a remote server 201, according to some embodiments of the invention. The direction of arrows in Fig. 2 may indicate the direction of information flow. In order to manage private data for individual users, data mapping system 200 may initially map data types and data patterns (for example as a calibration process), as further described hereinafter. It should be noted that private data as used hereinafter may refer to any data and/or portion of data representing user's behavior, habits, characteristics, opinions, preferences, tendencies, relations, actions, status parameters (e.g., social, health, economic/wealth, legal, dependencies, being part of group and the like) and the like. In some embodiments, the user may be a computerized device (e.g., IOT, bot and the like) automatically operating on the user's behalf, so that the private data may refer to data and/or characteristics of the computerized device. Private data may also include privacy data and/or privacy preference(s).

[042] A user may choose based on private preference to share some private data and not to share other private data. Users may choose to share same private data with specific server and/or application and not to share it with different servers and/or application. In some embodiments, users may change such preference(s) at any applicable point in time. In some embodiments, private data may be automatically created to represent at least one feature of a computerized device and/or of the user of the computerized device. In some embodiments, private data may include at least one communication pattern and/or communication origin and destination and/or digital footprint and/or digital trace and/or digital response and/or

digital reference. In some embodiments, private data may be received from analysis of data and/or from an external sensor and/or other source.

[043] The server 201 may be coupled to processor 202 such as controller 105, shown in Fig. 1. In some embodiments, processor 202 may receive at least one data packet 203 from server 201 to be mapped. For instance, processor 202 may receive at least one data packet 203 from a set of predetermined (or pre-classified) data packets 203. In some embodiments, processor 202 may receive from server 201 a request for sharing at least one data packet 203, for instance a request to share data packet with a contact name or contact directory data, where an automatic response may be created for each such request. It should be noted that data of such responses may also be considered as data packets 203 (e.g., to be mapped).

[044] In some embodiments, data mapping system 200 may include at least one data type database 204 and/or at least one data pattern database 205 and/or at least one privacy preference database 206 coupled to processor 202. In some embodiments, processor 202 may analyze the received data packet 203 to determine data type 207 of the data packet 203, for example by verifying at least one characteristic of the data packet 203. An exemplary mapping of data types 207 is shown in Fig. 3A.

[045] In some embodiments, processor 202 may receive (e.g., from a user) privacy preference 209 to map the privacy preference database 206 for each data type and/or data pattern of the at least one data packet 203. In some embodiments, data mapping system 200 may include a modification algorithm 210, coupled to processor 202, and configured to, modify content of data packets according to at least one privacy preference 209 (e.g., nullify a content of a data packet). For example, the user may select a privacy preference 209 for forbidden sharing of location such that modification algorithm 210 may modify the content of the data packet 203 per a predetermined algorithm, for instance randomly modify the location (country) to any other country from a list of countries (e.g., Italy).

[046] Reference is now made to Fig. 3A, which schematically illustrates exemplary mapping of data type database 204, according to some embodiments of the invention. Processor 202 may receive a request to share at least one data packet 203 (e.g., from server 201) and analyze characteristics of the at least one data packet 203, for example analyze characteristics of automatically created responses for the request. In some embodiments, the content of the received at least one data packet 203 may be analyzed for purposes of data type mapping.

[047] According to some embodiments, characteristics of the received at least one data packet 203 may be determined and dynamically fitted to an 'i'-dimensional vector 304 (e.g., static characteristics determined from metadata). It should be noted that while the characteristics vector 304 shown in Fig. 3A is five-dimensional, such vectors may have a large number of characteristics. For example, an injective vector having dimensions of 50 characteristics (so that 'i'=50) or more. In some embodiments, an increased number of parameters in the characteristics vector 304 may improve chances of correctly determining the data type 207 until optimal determination of various data types may be achieved.

[048] At least one of the following characteristics of a data packet 203 may be injectively determined for each data packet: header, footer, version number, request by hostname/IP, sent to hostname/IP, server hostname/IP, IP address, file extension, , standard title, non-standard title, , encryption yes/no, encryption method, encoding yes/no, encoding method (e.g., 'UTF8'), whole file, chunked file, keywords, API version, SDK version, Social plug-in version, driver, communication protocol, action verbs, HTTP/HTTPS, URL Part Names, and/or any other specific character 'i' within the at least one data packet 203. The determined characteristics vector 304 may be associated with a particular data type 207 (since every data packet 203 corresponds to some data type 207), that may be still unknown (e.g., in terms of its content) and for instance indicated as data type 'j'. In some embodiments, processor 202 may receive at least one pre-classified data packet 203 with a known data type. In some embodiments, the data type 207 of characteristics vector 304 for the data-mapping stage, may be determined by reading the content of the corresponding data packet 203, for example reading content for the country name, web browsing history, operating system, etc.

[049] Such data types 207 (or characteristics vectors 304) that are gathered by processor 202, and possibly still having unknown data type content (e.g., data type 'j') at this stage, may be stored (e.g., stored in memory such as memory 120 shown in Fig. 1) at data type database 204 in order to carry out the data type mapping. Processor 202 may map the stored data types to link characteristics vectors 304 with data types 207. In some embodiments, processor 202 may determine that characteristics vectors 304 having at least one identical characteristic may correspond to a particular data type 207 (e.g. Web content search history type).

[050] Reference is now made back to Fig. 2. In some embodiments, data pattern database 205 may include at least one data pattern 208 corresponding to responses to sharing of at least one data packet 203. Similarly to mapping of data types (e.g., as shown in Fig. 3A), processor 202 may map data patterns of responses to request of sharing data packets 203. It should be noted that while the data type 207 of a data packet 203 may correspond to static parameters (e.g., email address), the data patterns 208 may correspond to features of the dynamic data flow of data packet 203 that may be regarded as the “behavior” of the data packet 203.

[051] Reference is now made to Fig. 3B, which schematically illustrates exemplary mapping of data pattern database 205, according to some embodiments of the invention. Processor 202 may receive at least one data packet 203 (e.g., from server 201), for example at least one response (or data packet) corresponding to a request for sharing the data packet 203 to analyze pattern behavior of the at least one response (or data packet). In some embodiments, the content of the received at least one data packet 203 may be analyzed to determine the data pattern. For example, at least one response may injectively correspond to a request for sharing at least one data packet 203 and/or a characteristic of the data packet 203 (e.g., a picture file from memory or from camera).

[052] It should be noted that while the pattern vector 305 shown in Fig. 3B is four-dimensional, such vectors may have a large number of features or ranges. For example, an injective vector 305 having dimensions of 100 features and/or ranges (so that ‘m’=100) or more. At least one of the following dynamic features of a data pattern may be determined for each data packet: frequency (e.g., appearance(s) per second), size (e.g., in kilobytes), speed (in kilobytes per second), count (e.g., numbers), ratio (e.g., compared to other datatype flow), repeat (e.g., cyclic order), order, server reference (e.g., website reference such as “example.com/feature”) and/or any combination thereof and/or other pattern behavior ‘m’ within the at least one data packet. In some embodiments, ranges for every feature (e.g., frequency) may be determined (e.g., lowest and highest frequency) as a feature of the data pattern 208. In some embodiments, a range may refer to non-discrete values (in contrast to discrete or static values in data type mapping, as shown in Fig. 3A), for instance a range defining number of website sub references (e.g., “example.com/sub-feature/sub-feature” with two sub references).

[053] The determined feature or pattern behavior vector 305 may be associated with a particular data pattern 208 (since every data packet 203 corresponds to some data pattern 208), that may be still unknown and for instance indicated as data pattern 208 'n'. In some embodiments, processor 202 may receive at least one pre-classified data packet 203 with a known data pattern.

[054] Such data patterns 208 that are gathered by processor 202, and possibly still having unknown data pattern 'n' at this stage, may be stored (e.g., stored in memory such as memory 120 shown in Fig. 1) at data pattern database 205 in order to carry out the data pattern mapping. Processor 202 may map the stored data patterns 'n' to link behavior vectors 305 with data patterns 208. In some embodiments, processor 202 may determine that pattern behavior vectors 305 having at least one identical characteristic and/or range may correspond to a data pattern 208 (e.g., same frequency range). In some embodiments, data patterns 208 may be determined according to logical conditions and/or ranges, for example for responses having frequency and size features in within predetermined thresholds.

[055] Reference is now made to Fig. 3C, which schematically illustrates exemplary mapping of privacy preference table 306, according to some embodiments of the invention. Processor 202 may receive at least one data packet 203 (e.g., from server 201), for example at least one response (or data packet) corresponding to a request for sharing the data packet 203 to analyze type and pattern behavior of the at least one response (or data packet) to create data type database 204 and data pattern database 205 as described above. In some embodiments, processor 202 may receive (e.g., from a user) privacy preference database 206 to map the privacy preference table 306 for each data type (content) and/or data pattern of the at least one data packet 203. For example, the user may fill a privacy preference template (e.g., selecting to allow sharing of username) for different options of data types and/or data patterns to determine the privacy preference table 306. In case that some data packet is forbidden for sharing (e.g., contact data and/or a password), the content of that data packet may be, for example randomly, modified by predetermined modification algorithm 210 such that the modified content (e.g., nullified password or randomly replaced to a dummy contact name from a list) may be shared. In some embodiments, processor 202 may only check the data type such that no pattern is checked in order to determine the policy to apply, for example sharing of password data types may be completely forbidden so that data patterns are not checked. In some embodiments, processor 202 may detect an IoT

device and only check the data pattern where the data type may not be checked. In some embodiments, processor 202 may only check the data pattern such that no data type is checked, for example checking frequency limit and modifying in accordance with the predefined limitations. In some embodiments, repetition in at least one forbidden characteristic (e.g., forbidden frequency) may cause blocking of data sharing.

[056] Reference is now made back to Fig. 2. In some embodiments, privacy preference database 206 may include at least one privacy preference 209 such as a template to link privacy preferences for the determined data types 207 and/or data patterns 208 and/or modification algorithm 210. For example, privacy preference database 206 may include an un-populated matrix with data types 207 and/or data patterns 208 and/or modification algorithm 210 such that a user may choose which data types (content) 207 and/or data patterns 208 to share. In some embodiments, data mapping system 200 may include a modification algorithm 210, coupled to processor 202, and configured to manage sharing of at least one data packet 203 based on its data type 207 and/or data pattern 208 to comply with at least one privacy preference 209. The operation of the modification algorithm 210 is further described in Fig. 5, hereinafter.

[057] In some embodiments, data mapping system 200 (shown in Fig. 2) may be used as a system to determine collection of uncontrolled information from hardware equipment. Some manufacturers embed into their products, hidden agent(s) which transmits at least one hidden data packet. As may be apparent to one of ordinary skill in the art, such systems and methods may identify “back door” ability which may be part of the hardware core functionality and/or part of unit’s embedded software. In some embodiments, by implementing the data mapping system 200 (shown in Fig. 2), unrecognized type and/or pattern of data packet may be determined, wherein the unrecognized type and/or pattern of data packet may be generated internally (in contrast to being requested by the server). Such data packet may be stored and further investigated for its origin and destination.

[058] Reference is now made to Fig. 4, which schematically illustrates a data management system 400 for dynamic management of private data during communication between a remote server 401 (such as server 201 in Fig. 2) and at least one user’s device 411, according to some embodiments of the invention. The direction of arrows in Fig. 4 may indicate the direction of information flow. It should be noted that the at least one user’s device 411 may be a computerized device such as computing device 100, shown in Fig. 1.

[059] In some embodiments, data management system 400 may include a data type database 404 (such as data type database 204 in Fig. 2), coupled to processor 402, such that processor 402 may modify data packets (e.g., modify responses) to requests for retrieval of data packets 403 that are not compatible with data types from a data type database 404 and/or with data patterns from a data pattern database 405. In some embodiments, data management system 400 may further include a user interface 413 to issue an alert upon detection of a request for retrieval of data packets 403 that is not compatible with the privacy preference. In some embodiments, data packets 403 from the user's device 411 may be a response created as full or partial extraction(s) selected from the group consisting of any one of user's device files (permanent or temporary), user's device characteristics, user's device indirect attributes, user's device sensor data, user's device browser data, user's device form data, user's device dynamic memory user's device static memory or the like.

[060] In some embodiments, data management system 400 may further include a user database 421 and/or a server database 431 for mapping of users and/or servers. Each user and/or user's device 411 using data management system 400 may be registered in user database 421 with corresponding privacy preference from privacy preference database 406, such that each user and/or user's device 411 may be linked to at least one privacy preference from privacy preference database 406. In some embodiments, server database 431 may include a list of servers 401 for communication with user devices 411. For example, a user may determine a predefined list of servers 401 for sharing of data (e.g., determine a whitelist). Thus, privacy preference database 406 may link privacy and/or sharing preferences for each user and/or server and/or data type and/or data pattern.

[061] In some embodiments, data management system 400 may perform at least one of sharing, blocking and/or modifying, per the modification algorithm 410 (e.g., such as modification algorithm 210, shown in Fig. 2), data packets 403 during communication between server 401 and user's device 411 according to the corresponding privacy preference from privacy preference database 406. For example, requests for sharing of data packets 403 of unrecognized data type may be blocked, requests for sharing of data packets 403 of allowed data type are shared, and requests for sharing of data packets 403 of forbidden data type are modified such that a predetermined response may be shared (e.g., nullify of contact data and randomly change to different mobile carrier from carrier list). In some embodiments, modification algorithm 410 may be configured for each mapped data type

and/or data pattern so as to maintain communication as well as the privacy preference by, for example randomly, modifying forbidden data packet (content) for sharing.

[062] In some embodiments, data mapping system 200 (shown in Fig. 2) may be continuously updates such that blocked unrecognized data types may be stored in a dedicated memory (such as memory 120 in Fig. 1) until this data type is mapped and recognized.

[063] In some embodiments, data management system 400 may perform at least one of sharing, blocking and modifying data packets 403 during communication between server 401 and user's device 411 in substantially real time such that the user may continue operation of user's device 411 while data management system 400 may operate in the background and/or operate in application mode for some operating systems (e.g., IOS) and/or some browsers (e.g., Safari). In some embodiments, data management system 400 (in contrast to the data-mapping stage) may handle encrypted data packets 403 since determination of data type does not read and concern the actual content of the data packet 403 even if the content is encrypted. It should be noted that while the mapping stage (e.g., described in Figs. 2 and 3A-3C) may require reading the content of the data packets for initial determination of data type and/or data pattern and/or privacy preference, the data management system 400, in contrast, does not need to read the actual content of the data packets.

[064] In some embodiments, data management system 400 may include a data pattern database 405 (such as data pattern database 205 in Fig. 2) with at least one data pattern corresponding to sharing of at least one data packet 403 (such as data packet 203 in Fig. 2) from user's device 411. In some embodiments, various data packets may be analyzed (e.g., by a processor) to determine reoccurring data patterns and thereby create data pattern database 405. As may be apparent to one of ordinary skill in the art, computerized devices such as user's device 411 may include a plurality of data packets 403 with various information (e.g., time zone, type of operating system, location, web browsing history, mouse movement, external audio, eye's focus tracking etc.) regarding the user's device 411.

[065] During communication with remote servers such as server 401, the server may send requests for sharing of these data packets 403, wherein the user's device 411 may automatically provide a corresponding response (or data packet) that is compatible with the received request without knowledge, control and/or authorization of the user. According to

some embodiments, data management system 400 may manage data packets 403 that are shared with server 401 according to a predefined privacy preference. In some embodiments, data management system 400 may further include a privacy preference database 406 (such as privacy preference database 206 in Fig. 2) with a predetermined privacy preference and/or a list of allowed and/or forbidden types of data packets 403 for sharing and/or modifying and/or, if not recognized, for blocking during communication with the at least one user's device 411. In some embodiments, at least some elements of the data management system 400 may be similar to corresponding elements in data mapping system 200, for example privacy preference database 406 while the content of data packet is not read.

[066] In some embodiments, data management system 400 may further include a communication module 412 configured to allow communication between the server 401 and the at least one user's device 411. In some embodiments, a user may determine at least one privacy preference from privacy preference database 406 with privacy preferences for data types and/or data patterns that the user allows for sharing (and/or forbidden types to be modified and/or, if not recognized types, to be blocked), for example the user may choose to block sharing of location data of any kind.

[067] In some embodiments, data management system 400 may further include a processor 402 (such as controller 105, shown in Fig. 1) coupled to the data pattern database 405 and to the privacy preference database 406. In some embodiments, processor 402 may be coupled to communication module 412. In some embodiments, processor 402 may be embedded in user's device 411. In some embodiments, processor 402 may determine at least one data pattern for sharing of data packet 403 that is for example compatible with the list of allowed types of data packets 403 from data type database 404 for sharing. In some embodiments, processor 402 may be embedded in server 401.

[068] In some embodiments, data management system 400 may operate in user's device 411 (e.g., in the form of internal proxy) to manage sharing of data packets 403, while data management system 400 may not affect other functionalities of the user's device 411 so as to allow uninterrupted usage of the device.

[069] Reference is now made to Fig. 5, which shows a flowchart for a method of management of data packets with a sharing algorithm during communication between a remote server and a user's device, according to some embodiments of the invention. The

processor (e.g., processor 402) may provide a data packet 403, for instance in response to a request for sharing of data. The received data packet 403 may be checked 501 for known or unknown element, for instance checked 501 for known data type and/or known data pattern based on data type database 404 and/or data pattern database 405. According to some embodiments, unknown elements may be determined as unrecognized and be blocked 510 by the sharing algorithm and not shared (e.g., with the server).

[070] In some embodiments, known elements may be checked 502 for allowed or forbidden elements, for instance checked 502 for allowed data type and/or allowed data pattern based on privacy preference database 406. According to some embodiments, allowed elements may be shared 520 by the sharing algorithm. According to some embodiments, forbidden elements may be, for example randomly, modified 530 by the predetermined modification algorithm 410 with sharing 520 of the modified content (e.g., with the server). For example, a user choosing not to share the country name may choose a privacy preference to modify such data packet to always share a random country name from a list of countries (e.g., “France”) by modifying the data packet to be shared with the user, in order to maintain ongoing communication with the server.

[071] It should be noted that with data management system 400, the user may choose features for sharing such that other features that are forbidden for sharing may be modified so as to allow continuous and uninterrupted communication with the server.

[072] Reference is now made to Fig. 6A, which shows a flowchart for a method of dynamic management of private data during communication between a remote server 401 and a user’s device 411, according to some embodiments of the invention. In some embodiments, user’s device 411 may receive 601 a request for retrieval of at least one data packet 403 from the user’s device 411, wherein the user’s device 411 may provide a response corresponding to the received request.

[073] In some embodiments, the user’s device 411 may determine 602 the data type of the at least one data packet 403 corresponding to the received request. In some embodiments, the user’s device 411 may receive 603 a privacy preference for the user’s device 411, wherein the privacy preference includes a list of allowed (or forbidden) data packet types for sharing (or randomly modifying per the predetermined modification algorithm for each forbidden data type) during communication. In some embodiments, data packets corresponding to requests for sharing of responses that are not compatible with the received

privacy preference may be modified 604. In some embodiments, responses to requests for sharing of data packets 403 of unrecognized type may be blocked. In some embodiments, communication between the remote server 401 and the user's device 411 may be maintained 605 with sharing of the modified data packets (e.g., responses).

[074] In some embodiments, the user's device 411 may determine a pattern of at least one response corresponding to the received request, and modify data packets (e.g., responses) to requests for sharing of data packets 403 corresponding to at least one data pattern that are not compatible with the received privacy preference. In some embodiments, the privacy preference may include a list of allowed data patterns for sharing during communication.

[075] It should be noted that such predetermined modification per each forbidden data packet type, may be a fixed or random action, depend on the user's preference and the content (e.g. nullify for password and randomly change to different country from countries list). For data packets that are not compatible with the received privacy preference (as determined by the user) may allow users to optimally control sharing of their data. For example, a user choosing not to share location data may use the system to randomly modify the data packets during communication (as above) such that the location data may not be transferred via other means (e.g., user's instruction not to share location, application blocking only sensor GPS data while sharing country code data).

[076] In some embodiments, the user's device 411 may include a database with at least one data packet type corresponding to a request for sharing of data packets 403 from the user's device 411, wherein the type of data packets 403 may be determined from the data packet type database. In some embodiments, at least one response may be linked to a type of data packet 403 from the user's device 411, wherein the linking may be based on the data type and data pattern of the at least one response.

[077] In some embodiments, a response corresponding to a request for sharing of data packets may be identified (e.g., by a processor 402), wherein the identified response is not compatible with the received privacy preference. In some embodiments, a response with at least one modified data packet corresponding to the request for sharing types of data packets may be provided per the modification algorithm. In some embodiments, modification of the at least one modified data packet 403 may be selected from the group consisting of data nullification, change of encoding and/or file template, change of header and/or footer,

blocking, data randomization, content modification, addition of a predetermined data packet, encryption or the like.

[078] In some embodiments, a communication pattern between the server 401 and the user's device 411 may be identified, wherein the communication pattern may include at least one request for retrieval of at least one data packet 403 from the user's device 411 and corresponding responses. In some embodiments, an alert may be issued (e.g., by a processor 402) upon detection of a change in the identified communication pattern. In some embodiments, data packets 403 from the user's device 411 may be a response created as full or partial extraction(s) selected from the group consisting of any one of user's device files (permanent or temporary), user's device characteristics, user's device indirect attributes, user's device sensor data, user's device browser data, user's device form data, user's device dynamic memory user's device static memory or the like. .

[079] Reference is now made to Fig. 6B, which shows a flowchart for a method of dynamic management of private data during communication between a remote server 401 and a user's device 411, according to some embodiments of the invention. In some embodiments, user's device 411 may receive 611 a request for retrieval of at least one data packet 403 from the user's device 411, wherein the user's device 411 may provide a response corresponding to the received request.

[080] In some embodiments, user's device 411 may determine 612 at least one data pattern corresponding to the received request. In some embodiments, user's device 411 may receive 613 a privacy preference for the user's device 411, wherein the privacy preference may include a list of allowed (and/or forbidden) data patterns for sharing (and/or randomly modifying according to the predetermined modification algorithm for each of the forbidden data patterns) during communication. In some embodiments, responses corresponding to requests for sharing of data packets and corresponding data patterns that are not compatible with the received privacy preference may be modified 614. In some embodiments, communication between the remote server 401 and the user's device 411 may be maintained 615 with sharing of the modified responses.

[081] In some embodiments, user's device 411 may determine the type of the at least one data packet 403 of the received request. In some embodiments, requests for sharing of data packets 403 and corresponding data patterns, corresponding to at least one data packet type, that are not compatible with the received privacy preference may be modified. In some

embodiments, the privacy preference may include a list of allowed (and/or forbidden) data packet types for sharing (and/or modifying) during communication.

[082] In some embodiments, user's device 411 may include a database with at least one data pattern corresponding to a request for sharing of data packets from the user's device, and wherein the at least one data pattern compatible with the received request may be determined from the database. In some embodiments, user's device 411 may determine the type of the at least one data packet 403 of the received request, and link at least one data pattern to a type of data packet from the user's device 411, wherein the linking may be based on the pattern of the at least one response.

[083] In some embodiments, a data pattern corresponding to a request for sharing of types data packets 403 may be identified (e.g., by a processor 402), wherein the identified data pattern is not compatible with the received privacy preference. In some embodiments, a response with at least one modified data packet corresponding to the request for sharing types of data packets may be provided.

[084] In some embodiments, an alert may be issued (e.g., by a processor 402) upon detection of a request for sharing data packets, wherein the detected request does not correspond to a data type and/or a data pattern and/or a combination thereof that is not compatible with the received privacy preference. In some embodiments, a communication pattern between the server 401 and the user's device 411 may be identified, wherein the communication pattern may include at least one request for retrieval of at least one data packet 403 from the user's device 411 and corresponding responses. In some embodiments, an alert may be issued (e.g., by a processor 402) upon detection of a change in the identified communication pattern.

[085] In some embodiments, a data management system (e.g., data management system 400 as shown in Fig. 4) may be implemented as an exit gatekeeper to monitor outflow communication. For example, in network embedded devices (NED) with limited CPU power, low memory capacity and low power resources means (e.g., internet of things (IOT) device and/or machine to machine and/or machine to server communication and/or other thin client or the like). Outflow communication may be monitored for communication patterns and/or data packet type and/or data pattern and once going out of predefined type and/or pattern range, may limit communication flow and/or block it. This ability to monitor and control outflow communication by the system may prevent for any user's device and/or

NED, from being part of communication overloading attacks for example distributed denial of service (DDoS) attack or the like. Such attacks may be created by malicious attackers who are remotely using uncontrolled user's device and/or NED or the like, to generate very high communication flow (e.g., 1 terabyte per second) in short period of time (e.g. hundreds of thousands or more of IP address endpoints at the same time) that basically overload the attacked server(s) until it adversely impacts its ability to function and in some cases creates fatal malfunction in mission critical systems.

[086] Reference is now made to Fig. 7, which schematically illustrates a data management system 700 for dynamic management of private data that is at least partially embedded on a hardware component 711 (indicated with a solid line), according to some embodiments of the invention. The data management system 700 may include the communication module and/or processor adjusted and preconfigured to privacy preference methods and processes and/or data storage such as privacy preference database. The data management system 700 may be at least partially embedded on a hardware component 711, for instance embedded on one chip and/or integrated circuit and/or processor. According to some embodiments the system may communicate with server 401 and/or user's device 411 via the communication module 412. In some embodiments, the hardware component 711 (indicated with a solid line) may include at least one privacy preference database that been preconfigured and may be updated only locally so that no remote change can be made, for example by using electrically erasable programmable read-only memories (EEPROMs). In some embodiments, the hardware component 711 (indicated with a solid line) may be embedded and/or added to user's device 411 (indicated with a dashed line).

[087] For example, such data management system 700 may be added into an IOT device (e.g., adding a chip and/or a circuit to the CPU) such that DDoS may be prevented, for example, communication between the IOT device may be monitored and controlled for unusual communication patterns, such that data patterns containing higher frequency (e.g. higher than ten data packets per second) and/or data flow (e.g., higher than 1 megabyte per second) may be blocked by the system, according to privacy preferences determined for that purpose. For example, as shown in Fig. 3C as well. It should be noted that such preferences may only check data patterns where the data type of the data packets in the communication are not checked.

[088] Unless explicitly stated, the method embodiments described herein are not constrained to a particular order in time or chronological sequence. Additionally, some of the described method elements can be skipped, or they can be repeated, during a sequence of operations of a method.

[089] Various embodiments have been presented. Each of these embodiments may of course include features from other embodiments presented, and embodiments not specifically described may include various features described herein.

CLAIMS

1. A method of dynamic management of encrypted data during communication between a remote server and a user's device, the method comprising:
 - receiving, by the remote server a communication comprising encrypted data packets;
 - determining, by the remote server, a content of at least one data packet of the communication in accordance with characteristics of the at least one data packet, and wherein the content of the at least one data packet is not decrypted by the remote server, and the determination of the content is performed by the remote server in real time during a communication session between the remote server and the user's device;
 - storing, by the remote server, a preference list;
 - determining, by the remote server, based on a comparison of the determined content, whether to modify the at least one data packet, and if so, modifying the at least one data packet; and
 - sharing, by the remote server, the modified communication.
2. The method of claim 1, wherein determining a content of the at least one data packet comprises determining at least one data type of the at least one data packet of the communication in accordance with characteristics of the at least one data packet, and wherein determining whether to modify the at least one data packet is based on the determined data type.
3. The method of claim 2, wherein the preference list includes a list of forbidden and/or allowed data packet types for sharing during communication.
4. The method of claim 1, further comprising:
 - determining, by the remote server, at least one communication data pattern in accordance with a behavior range of the data packet, and wherein the content of the at least one data packet is not decrypted by the remote server, and the determination of the at least one communication data pattern is performed by the remote server in real time during a communication session between the remote server and the user's device;
 - wherein the determining whether to modify the at least one data packet, by the remote server, is further based on a comparison of the determined data pattern and the

preference list, whether to modify the at least one data packet, and if so, modifying the at least one data packet; and

wherein the preference list includes a list of forbidden and/or allowed data packet types and communication data patterns for sharing during communication.

5. The method of claim 1, wherein the modification of the communication is selected from the group consisting of: blocking the at least one data packet that is not compatible with the preference list, data nullification, data randomization, content modification, change of encoding, change of file template, change of header, change of footer, addition of a predetermined data packet, and encryption.
6. The method of claim 2, wherein the data type of the at least one data packet is determined based at least in part on metadata of at least one data packet of the communication.
7. The method of claim 4, wherein the data pattern is determined based on communication behavior, wherein the communication behavior consists of data packet frequency, data packet size, data packet speed, data packet count, data packet ratio compared to other data type flow, data packet repetition, or data packet order.
8. The method of claim 1, further comprising, the remote server maintaining communication between the remote server and the user's device by sharing of the modified communication.
9. The method of claim 1, wherein the data type is determined based on data packet characteristics selected from a group consisting of: data packet header, data packet footer, version number, IP (Internet Protocol) address, HTTPS (HyperText Transfer Protocol Secure), file extension, encryption method, encoding method, keywords, driver, and communication protocol.
10. The method of claim 1, wherein the remote server is a gatekeeper server.

11. The method of claim 2, further comprising, the remote server issuing an alert to the user device based on the comparison of the determined data type and the preference list.
12. A method of dynamic management of encrypted data during communication between a remote server and a user's device, the method comprising:
 - receiving, by the remote server a communication comprising encrypted data packets;
 - determining, by the remote server, at least one communication data pattern of at least one data packet of the communication in accordance with a behavior range of the data packet, and wherein content of the at least one data packet is not decrypted by the remote server, and the determination of the at least one data pattern is performed by the remote server in real time during a communication session between the remote server and the user's device;
 - storing, by the remote server, a preference list;
 - determining, by the remote server, based on a comparison of the determined data pattern and the preference list, whether to modify the at least one data packet, and if so, modifying the at least one data packet; and
 - sharing, by the remote server, the modified communication.
13. The method of claim 12, wherein the preference list includes a list of forbidden and/or allowed communication data patterns for sharing during communication.
14. The method of claim 12, wherein the modification of the communication is selected from the group consisting of: blocking the at least one data packet that is not compatible with the preference list, data nullification, data randomization, content modification, change of encoding, change of file template, change of header, change of footer, addition of a predetermined data packet, and encryption.
15. The method of claim 12, wherein the communication data pattern of the at least one data packet is determined based on communication behavior, wherein the communication behavior consists of data packet frequency, data packet size, data

packet speed, data packet count, data packet ratio compared to other data type flow, data packet repetition, or data packet order.

16. The method of claim 12, further comprising, the remote server maintaining communication between the remote server and the user's device by sharing of the modified communication.

17. The method of claim 12, wherein the remote server is a gatekeeper server.

18. The method of claim 12, further comprising, the remote server issuing an alert to the user device based on the comparison of the determined data pattern and the preference list.

19. A system for dynamic management of encrypted data during communication between a remote server and a user's device, the system comprising:

- a memory;

- a communication data type database comprising at least one communication data type corresponding to sharing of at least one data packet with the user's device;

- a preference list database,

- a communication module configured to allow communication between the remote server and the at least one user's device, and

- a processor, coupled to the preference list database, wherein the processor is configured to instruct the remote server to:

- determine a content of at least one data packet of the communication in accordance with characteristics of the at least one data packet, and wherein the content of the at least one data packet is not decrypted by the remote server, and the determination of the content is performed by the remote server in real time during a communication session between the remote server and the user's device,

- based on a comparison of the determined content and the preference list, determine whether to modify the at least one data packet, and if so, modify the at least one data packet; and

- share the modified communication.

20. The system of claim 19, wherein determining a content of the at least one data packet comprises determining at least one data type of the at least one data packet of the communication in accordance with characteristics of the at least one data packet, and wherein determining whether to modify the at least one data packet is based on the determined data type.
21. The system of claim 20, wherein the preference list database comprises a list of forbidden and/or allowed data packet types for sharing during communication.
22. The system of claim 19, wherein, the processor is further configured to determine at least one communication data pattern in accordance with a behavior range of the data packet, and wherein the content of the at least one data packet is not decrypted by the remote server, and the determination of the at least one communication data pattern is performed by the remote server in real time during a communication session between the remote server and the user's device; and wherein the determining whether to modify the at least one data packet, by the remote server, is further based on a comparison of the determined data pattern and the preference list, whether to modify the at least one data packet, and if so, modifying the at least one data packet; and wherein the preference list includes a list of forbidden and/or allowed data packet types and communication data patterns for sharing during communication.
23. The system of claim 20, wherein the data type of the at least one data packet is determined based at least in part on metadata of at least one data packet of the communication
24. The system of claim 22, wherein the at least one communication data pattern is determined in accordance with a behavior range of the data packet, wherein the behavior range is selected from a group consisting of: data packet frequency, data packet size, data packet speed, data packet count, data packet ratio compared to other data type flow, data packet repetition, and data packet order.
25. The system of claim 19, wherein the modification of the communication is selected from the group consisting of blocking the at least one data packet that is not compatible with the preference list, data nullification, data randomization, content

modification, change of encoding, change of file template, change of header, change of footer, addition of a predetermined data packet and encryption.

26. The system of claim 19, wherein the remote server is configured to maintain communication between the remote server and the user's device by sharing of the modified communication.
27. The system of claim 20, wherein the data type is determined based on data packet characteristics selected from a group consisting of: data packet header, data packet footer, version number, IP (Internet Protocol) address, HTTPS (HyperText Transfer Protocol Secure), file extension, encryption method, encoding method, keywords, driver, and communication protocol.
28. The system of claim 19, wherein the remote server is a gatekeeper server.
29. The system of claim 20, wherein the processor is configured to issue an alert to the user device based on the comparison of the determined data type and the preference list.
30. The system of claim 22, wherein the preference list includes a list of forbidden and/or allowed data packet types and communication data patterns for sharing during communication, and wherein, if the at least one data type of the at least one data packet is included in the list of forbidden and/or allowed data packets, the processor is configured to determine whether to modify the at least one data packet based on the determined data type and the preference list without performing a comparison of a determined data pattern and the preference list.

ABSTRACT

Systems and methods of dynamic management of private data during communication between a remote server and a user's device, including receipt of a request for retrieval of at least one data packet from the user's device, wherein the user's device is configured to provide a response corresponding to the received request, determination of at least one communication data type of the at least one data packet corresponding to the received request, receipt of a privacy preference for the user's device, wherein the privacy preference comprises a list of allowed data packet communication types for sharing during communication, modification of data packets corresponding to requests for sharing of responses that are not compatible with the received privacy preference and maintenance of communication between the remote server and the user's device, with sharing of the modified data packet.

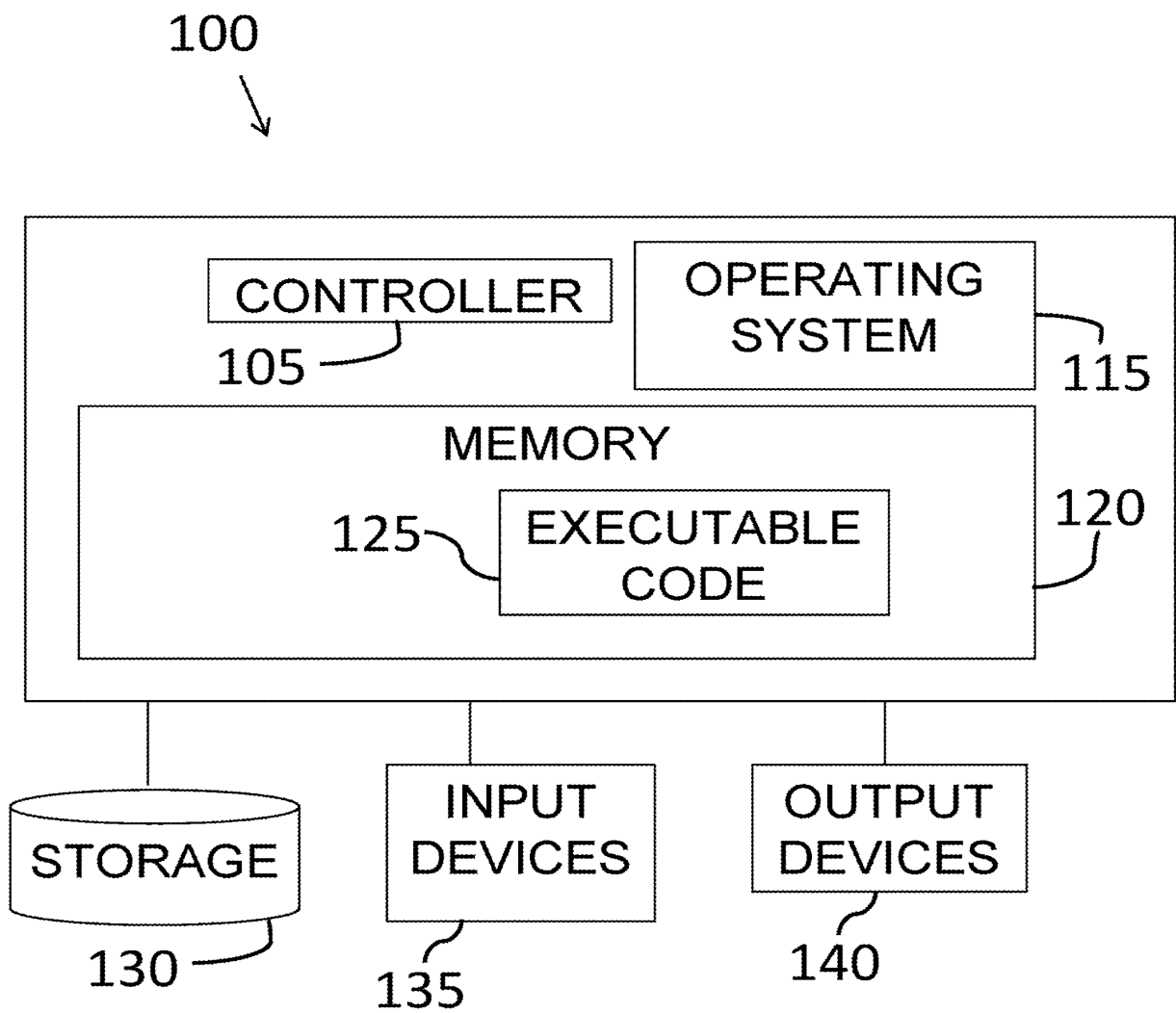


Fig. 1

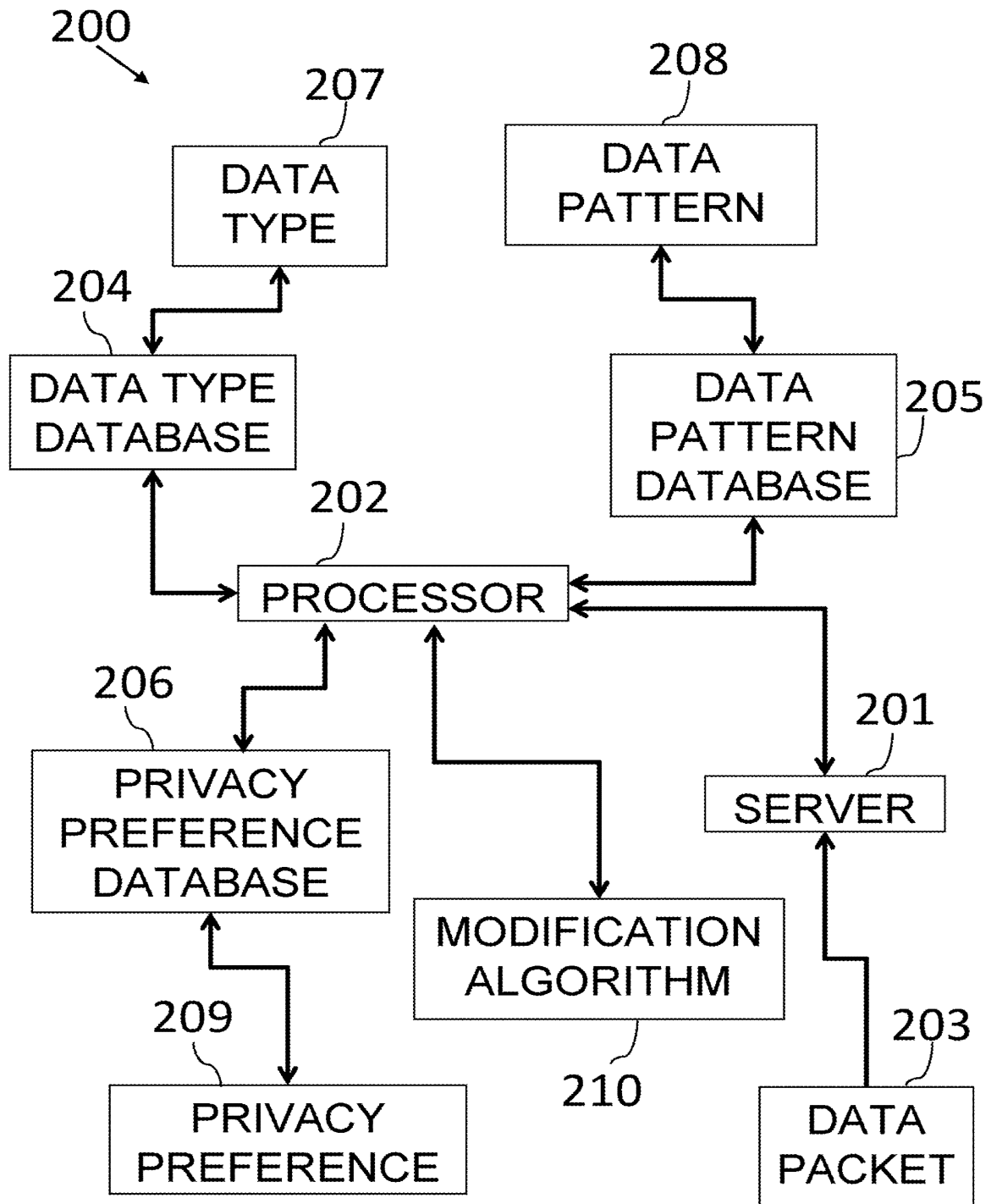


Fig. 2

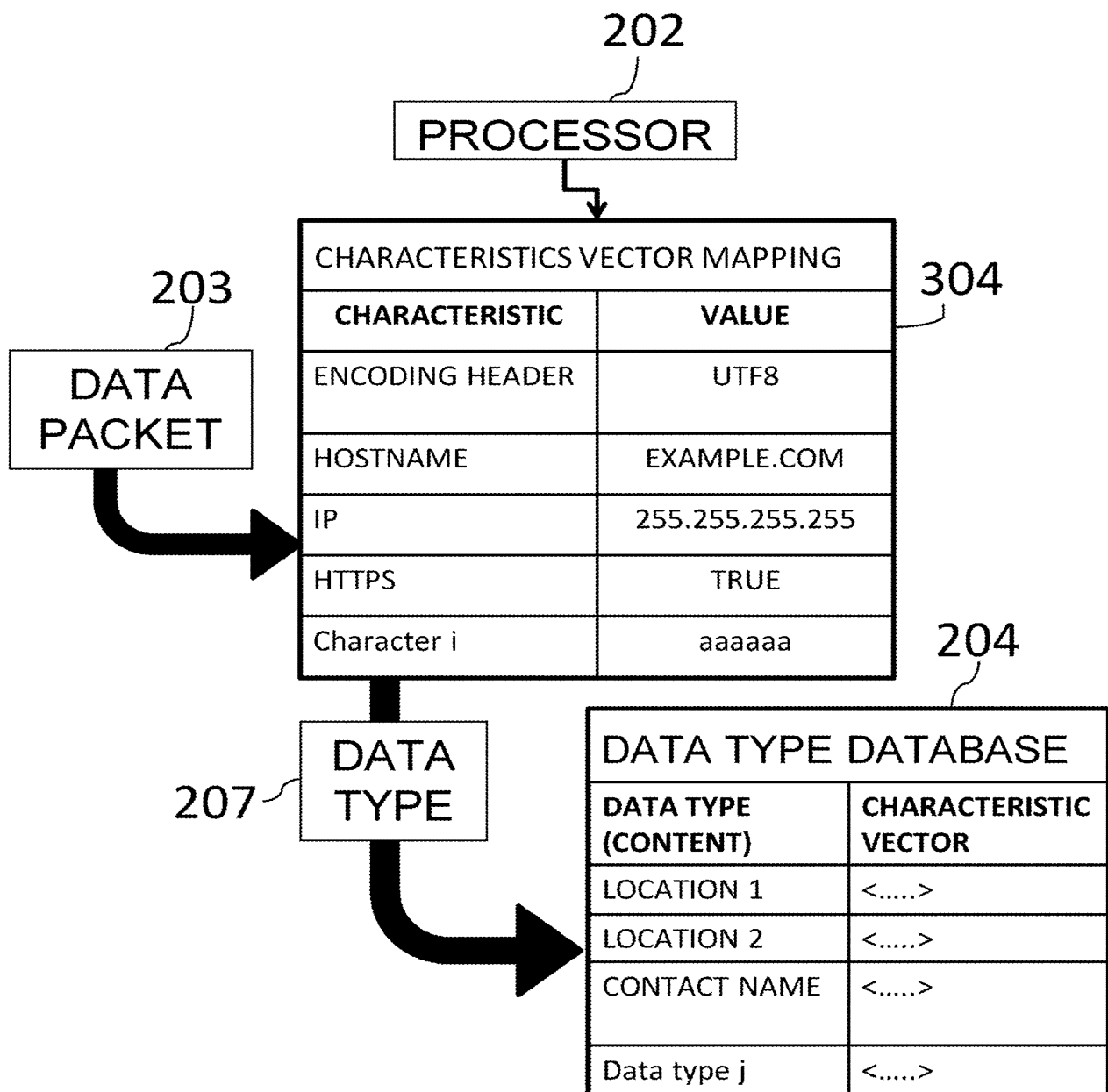


Fig.3A

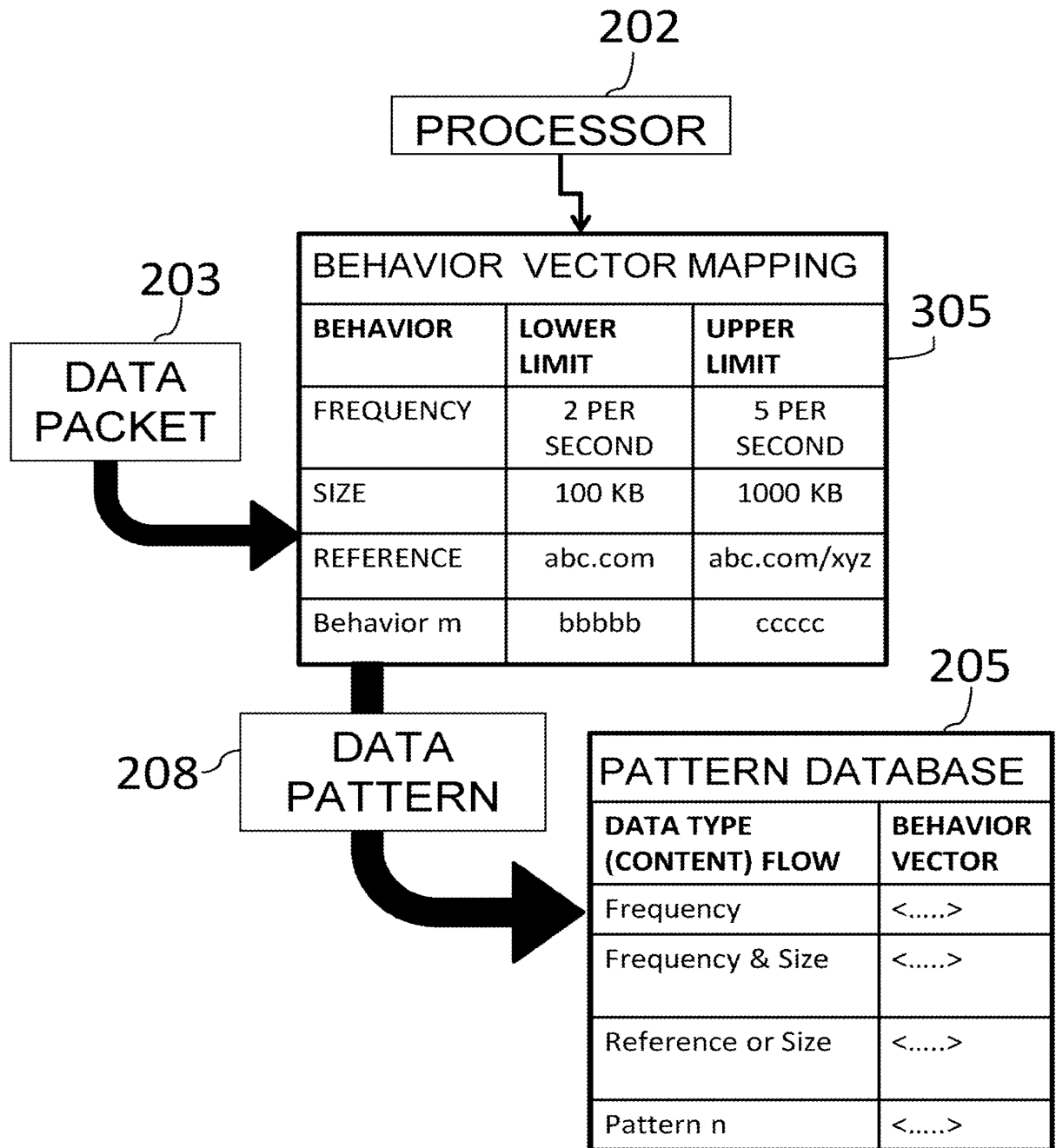


Fig. 3B

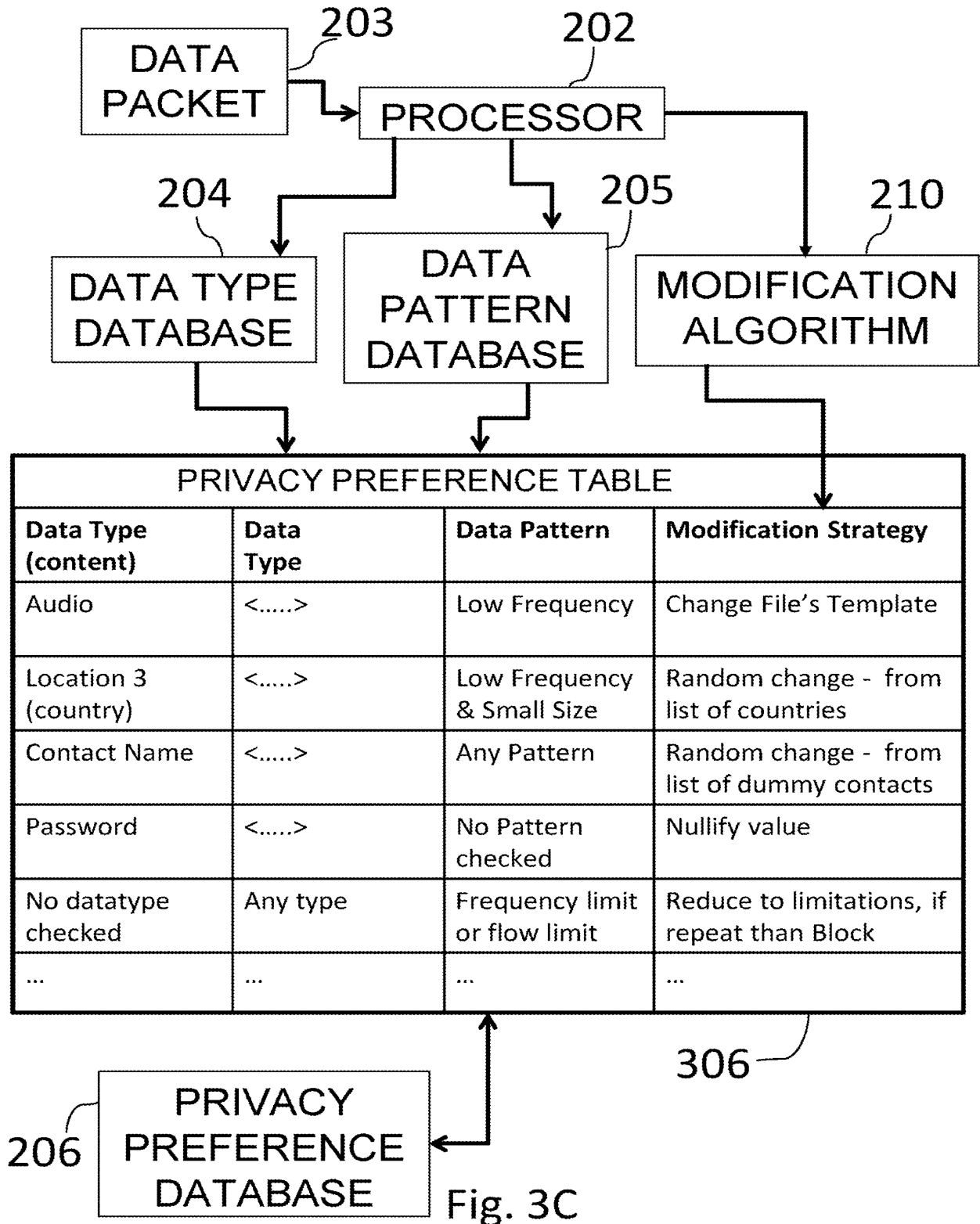


Fig. 3C

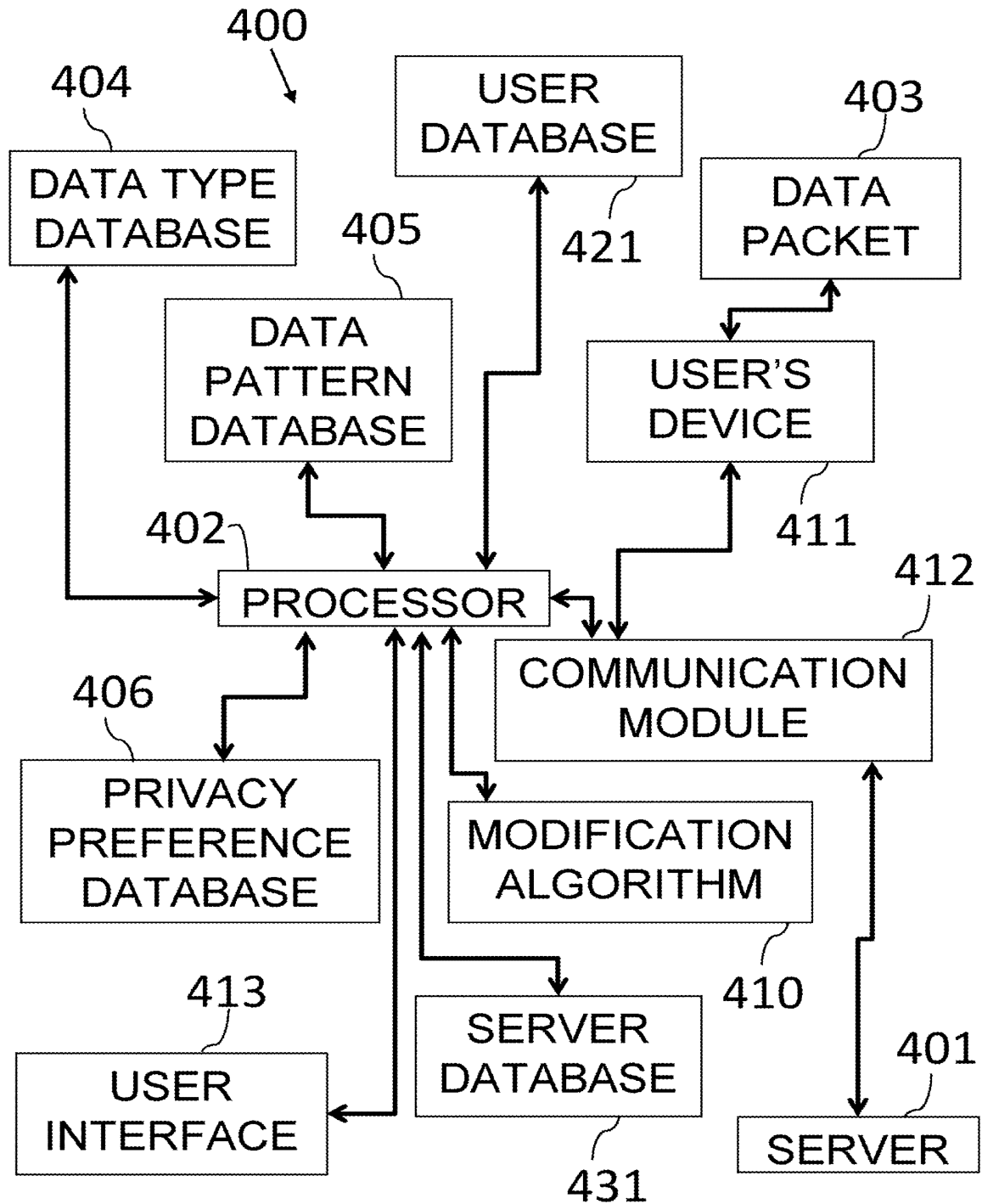


Fig. 4

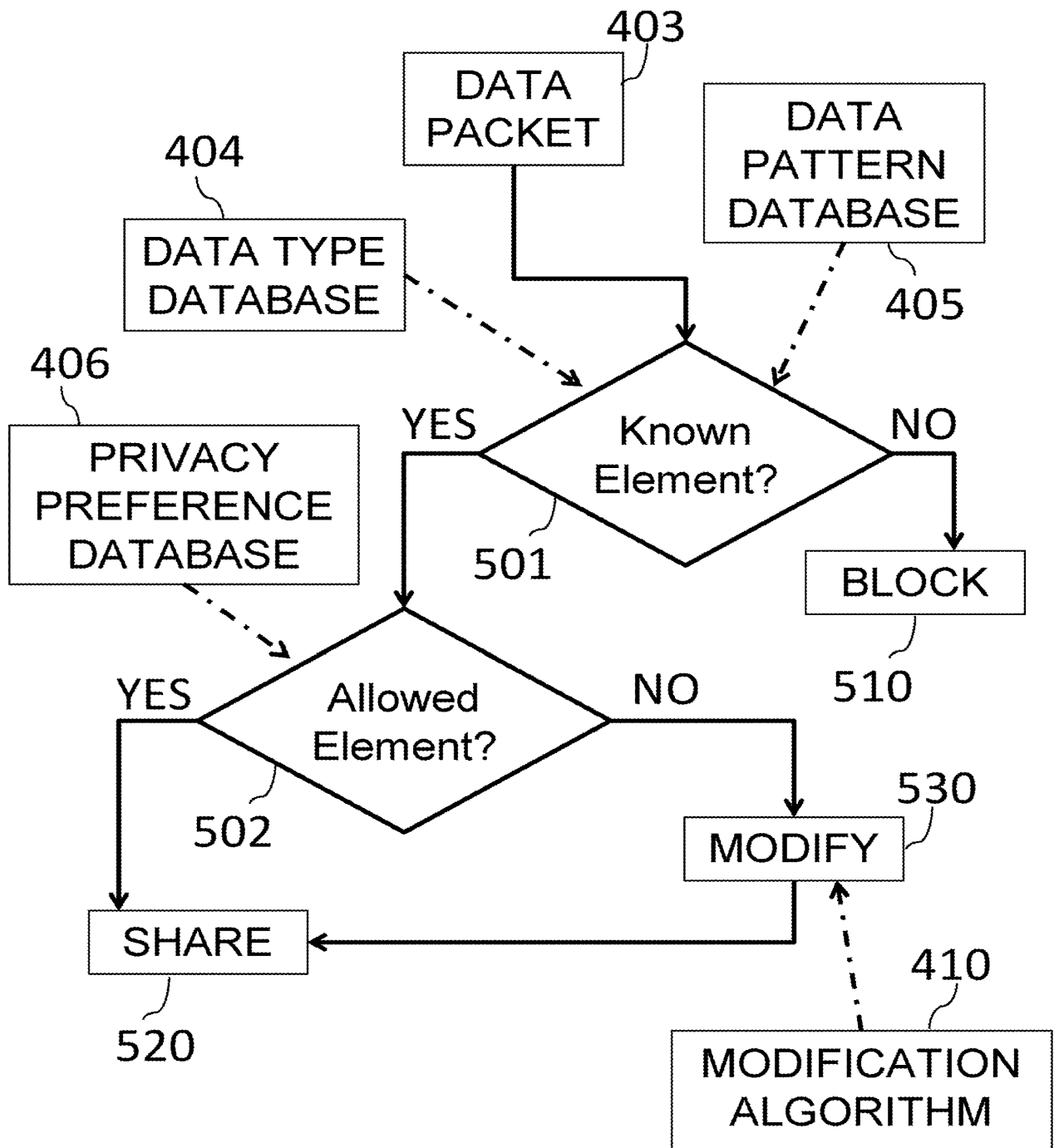


Fig. 5

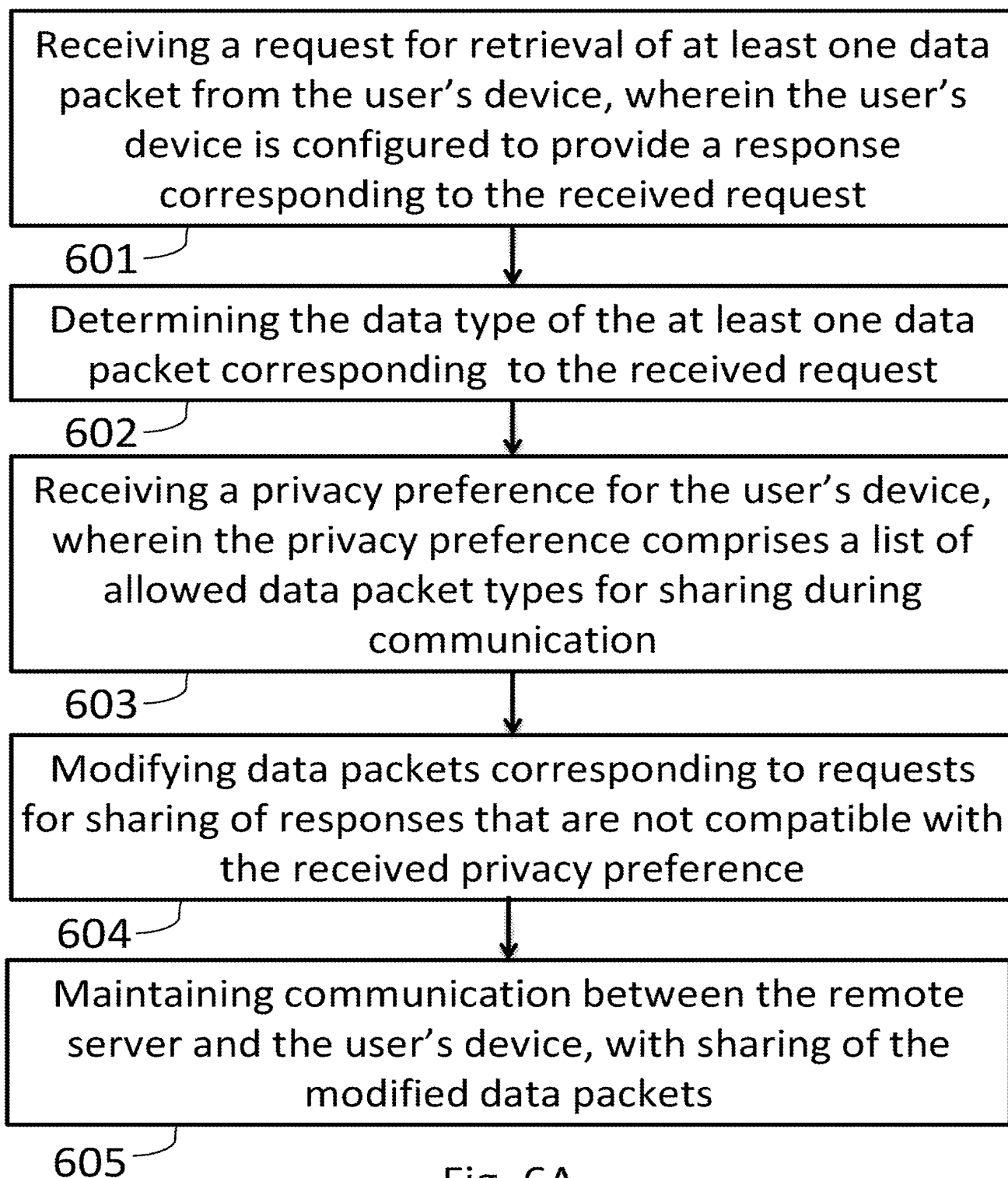


Fig. 6A

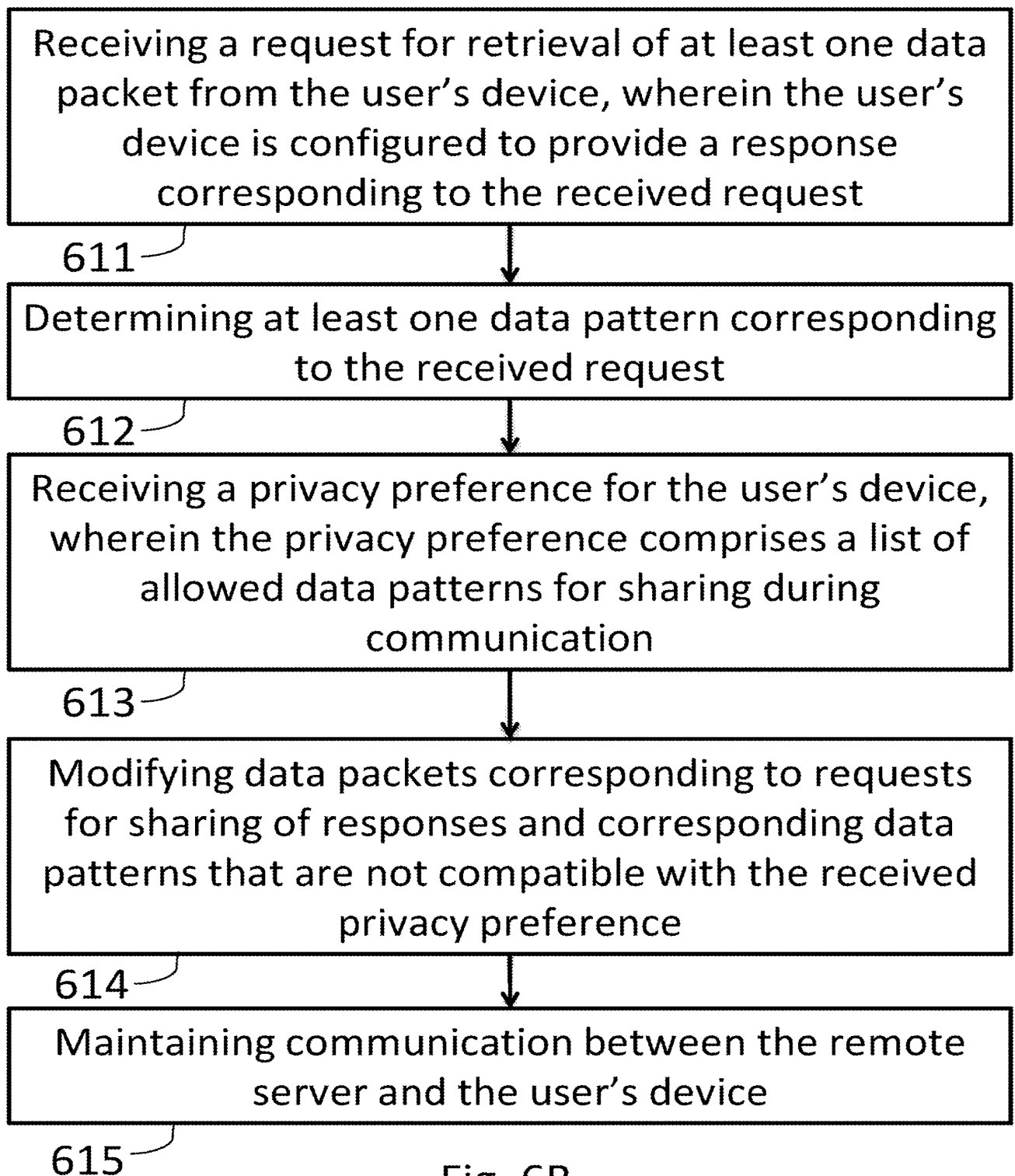


Fig. 6B

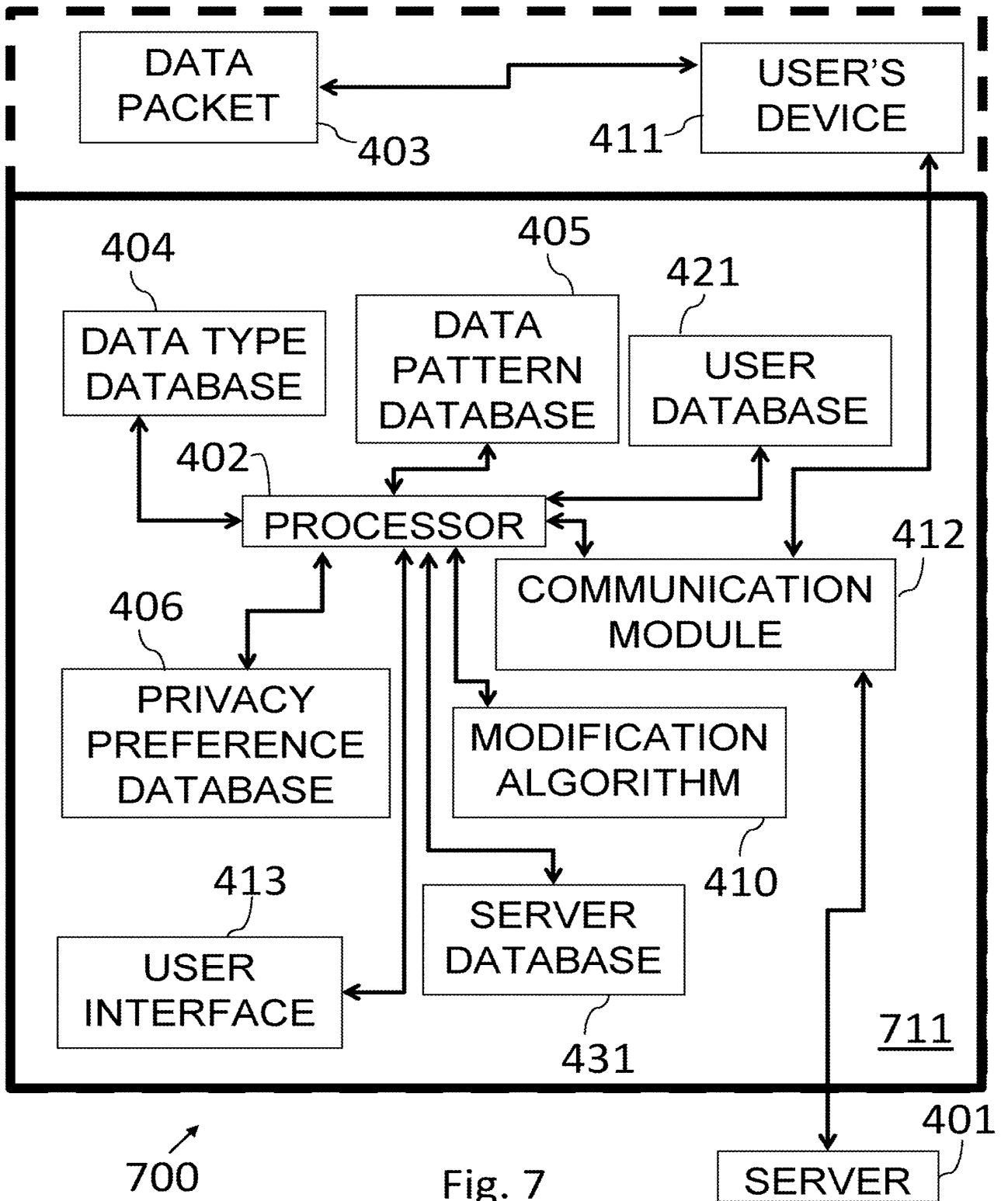


Fig. 7

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

Title of Invention	Attorney Docket No: P-566702-US1 SYSTEM AND METHOD FOR DYNAMIC MANAGEMENT OF PRIVATE DATA
-------------------------------	--

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.

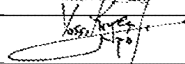
LEGAL NAME OF INVENTOR

Inventor: Yoseph KOREN

Privacy Notice: 2/7/20
10/20/2014 10:11:14
585740387 - 002

(Date Optional): 08/18/2021

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.

This collection of information is required by 35 U.S.C. 115 and 37 CFR 1.63. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 1 minute to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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

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

Title of Invention	Attorney Docket No: P-566702-US1 SYSTEM AND METHOD FOR DYNAMIC MANAGEMENT OF PRIVATE DATA
-------------------------------	--

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

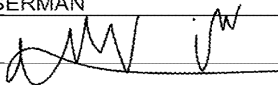
I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001
by fine or imprisonment of not more than five (5) years, or both.

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: Yehonatan WASSERMAN (Date Optional): 18/08/2021

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.

This collection of information is required by 35 U.S.C. 115 and 37 CFR 1.63. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 1 minute to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	P-566702-US2
	Application Number	
Title of Invention	SYSTEM AND METHOD FOR DYNAMIC MANAGEMENT OF PRIVATE DATA	
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	
	Yoseph		KOREN		
Residence Information (Select One) ☐ US Residency ☒ Non US Residency ☐ Active US Military Service					
City	Ganey Tikva	State/Province		Country of Residence	Israel
Mailing Address of Inventor:					
Address 1	91 Hagalil Street				
Address 2					
City	Ganey Tikva	State/Province			
Postal Code	5591491	Country	Israel		
All Inventors Must Be Listed - Additional Inventor Information blocks may be generated within this form by selecting the Add button.					Add

Inventor 2					Remove
Legal Name					
Prefix	Given Name	Middle Name	Family Name	Suffix	
	Yehonatan		WASSERMAN		
Residence Information (Select One) ☐ US Residency ☒ Non US Residency ☐ Active US Military Service					
City	Kiryat Ono	State/Province		Country of Residence	Israel
Mailing Address of Inventor:					
Address 1	39 Kaplan Street				
Address 2					
City	Kiryat Ono	State/Province			
Postal Code	5529339	Country	Israel		
All Inventors Must Be Listed - Additional Inventor Information blocks may be generated within this form by selecting the Add button.					Add

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	P-566702-US2
		Application Number	
Title of Invention	SYSTEM AND METHOD FOR DYNAMIC MANAGEMENT OF PRIVATE DATA		

Correspondence Information:

Enter either Customer Number or complete the Correspondence Information section below.
For further information see 37 CFR 1.33(a).

☐ An Address is being provided for the correspondence information of this application.

Customer Number 49443

Email Address USPTO@PearlCohen.com

Add Email

Remove Email

Application Information:

Title of the Invention	SYSTEM AND METHOD FOR DYNAMIC MANAGEMENT OF PRIVATE DATA		
Attorney Docket Number	P-566702-US2	Small Entity Status Claimed	☒
Application Type	Nonprovisional		
Subject Matter	Utility		
Total Number of Drawing Sheets (if any)	10	Suggest 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.

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	P-566702-US2
	Application Number	
Title of Invention	SYSTEM AND METHOD FOR DYNAMIC MANAGEMENT OF PRIVATE DATA	

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	49443		

Domestic Benefit/National Stage Information:

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

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

Prior Application Status	Pending	Remove	
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
	Continuation of	17/406,272	2021-08-19
Prior Application Status	Patented	Remove	
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
17/406,272	Continuation of	16/603,252	2019-10-07
Prior Application Status	Expired	Remove	
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
16/603,252	a 371 of international	PCT/IL2018/050359	2018-03-28
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(d). When priority is claimed to a foreign application that is eligible for retrieval under the priority document exchange program (PDX) the information will be used by the Office to automatically attempt retrieval pursuant to 37 CFR 1.55(h)(1) and (2). Under the PDX program, applicant bears the ultimate responsibility for ensuring that a copy of the foreign application is received by the Office from the participating foreign intellectual property office, or a certified copy of the foreign priority application is filed, within the time period specified in 37 CFR 1.55(g)(1).

Remove			
Application Number	Country	Filing Date (YYYY-MM-DD)	Access Code (if applicable)
251683	Israel	2017-04-09	9E3D
Additional Foreign Priority Data may be generated within this form by selecting the Add button.			Add

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	P-566702-US2
	Application Number	
Title of Invention	SYSTEM AND METHOD FOR DYNAMIC MANAGEMENT OF PRIVATE DATA	

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.
--------------------------	---

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.

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

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	P-566702-US2
	Application Number	
Title of Invention	SYSTEM AND METHOD FOR DYNAMIC MANAGEMENT OF PRIVATE DATA	

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.

☒ 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 Assignee is an Organization check here. ☒		
Organization Name	Privacy Rating Ltd.	

Prefix	Given Name	Middle Name	Family Name	Suffix
Mailing Address Information For Applicant:				
Address 1		91/33 Hagalil Street		
Address 2				
City		Ganey Tikva	State/Province	
Country	Israel	Postal Code	5591491	
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.				
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.				
Prefix	Given Name	Middle Name	Family Name	Suffix

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	P-566702-US2
		Application Number	
Title of Invention	SYSTEM AND METHOD FOR DYNAMIC MANAGEMENT OF PRIVATE DATA		

If the Assignee or Non-Applicant Assignee is an Organization check here. ☒			
Organization Name		Privacy Rating Ltd.	
Mailing Address Information For Assignee including Non-Applicant Assignee:			
Address 1		91/33 Hagalil Street	
Address 2			
City		Ganey Tikva	State/Province
Country	Israel	Postal Code	5591491
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:

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	/Brendan Mee/		Date (YYYY-MM-DD)	2023-01-10
First Name	Brendan S.	Last Name	Mee	Registration Number
				43,391
Additional Signature may be generated within this form by selecting the Add button. Add				

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.**

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: **PRIVACY RATING LTD.**Docket No.: **P-566702-US2**

Application No./Patent No.: _____ Filed/Issue Date: _____

Titled: **SYSTEM AND METHOD FOR DYNAMIC MANAGEMENT OF PRIVATE DATA****PRIVACY RATING LTD.**, a **Company**

(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 057455, Frame 0784, or for which a copy thereof is attached.
- B. ☐ A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as follows:

1. From: _____ To: _____

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

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

2. From: _____ To: _____

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

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

[Page 1 of 2]

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

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STATEMENT UNDER 37 CFR 3.73(c)

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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.

/Brendan Mee/

Signature

10 January 2023

Date

Brendan S. Mee

Printed or Typed Name

43,391

Title or Registration Number

ASSIGNMENT

In consideration of One Dollar (\$1.00), and other good and valuable consideration, the Receipt of which is hereby acknowledged, we the undersigned, Yoseph KOREN residing at 91/33 Hagalil St., Ganey Tikva 5591491, Israel and Yehonatan WASSERMAN residing at 39 Kaplan St., Kiryat Ono 5529339, Israel (hereinafter, the "Assignor")

Hereby sell, assign and transfer to Privacy Rating Ltd., an Israeli company located at 91/33 Hagalil St., Ganey Tikva 5591491, Israel; its successors, assigns and legal representatives (hereinafter, the "Assignee"), the entire right, title and interest for all countries, in and to any and all inventions which are disclosed and claimed, and as possessed by the undersigned, any and all inventions which are disclosed but not claimed in the application for United States Application No. (16/603,252 , filed October 7, 2019), which is a National Phase Application of PCT International Application No. PCT/IL2018/050359, PCT International filing date March 28, 2018 and being entitled:

SYSTEM AND METHOD FOR DYNAMIC MANAGEMENT OF PRIVATE DATA

and in and to said application and all divisional, continuing, substitute, renewal, reissue, and all other applications for U.S. Letters Patent or other related property rights in any and all foreign countries which have been or shall be filed on any of said inventions disclosed in said application, including but not limited to prior Israeli Application 251683 filed on April 9, 2017; and in and to all original and reissued patents or related foreign documents which have been or shall be issued on said inventions; and including the Assignor's right in and to all revenue, income, royalties, damages and payments now or hereafter due or payable with respect to any Letters Patent which may be granted, and in and to all causes of action (either in law or in equity), and the right to sue, counterclaim, and recover for past, present and future infringement of the rights assigned or to be assigned under this Assignment. I hereby authorize and request the attorney of record of the firm Pearl Cohen Zedek Latzer Baratz LLP, 1500 Broadway, 12th Floor, New York 10036, to insert in the parentheses above, the filing date and US Serial No. of said application when known;

Authorize and request the Commissioner of Patents of the United States to issue to said Assignee, the corporation above named, its successors, assigns and legal representatives, in accordance with this assignment, any and all United States Letters Patent on said inventions or any of them disclosed in said application;

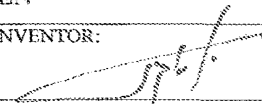
Agree that said Assignee may apply for and receive foreign Letters Patent or rights of any other kind for said inventions, or any of them; and may claim, in applications for said foreign Letters Patent or other rights, the priority of the aforesaid United States patent application under the provisions of the

- 1 -

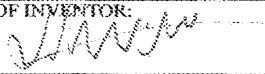
PATENT
REEL: 057455 FRAME: 0785

International Convention of 1883 and later modifications thereof, under the Patent Cooperation Treaty, under the European Patent Convention or under any other available international agreement; and that, when requested, without charge to, but at the expense of, said Assignee, its successors, assigns and legal representatives, to carry out in good faith the intent and purpose of this assignment, the under-signed or the undersigned's executors or administrators will, for the United States and all foreign countries, execute all divisional, continuing, substitute, renewal, reissue, and all other patent applications or other documents on any and all said inventions; execute all rightful oaths, assignments, powers of attorney and other papers; communicate to said Assignee, its successors, assigns and representatives, all facts known and documents available to the undersigned relating to said inventions and the history thereof; testify in all legal proceedings; and generally do everything possible which said Assignee, its successors, assigns or representatives shall consider desirable for aiding in securing, maintaining and enforcing proper patent protection for said inventions and for vesting title to said inventions and all applications for patents or related foreign rights and all patents on said inventions, in said Assignee, its successors, assigns and legal representatives; and

COVENANT with said Assignee, its successors, assigns and legal representatives that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by the undersigned, and that full right to convey the same as herein expressed is possessed by the undersigned.

FULL NAME OF INVENTOR: Yoseph KOREN	FULL NAME OF WITNESS:
SIGNATURE OF INVENTOR: 	SIGNATURE OF WITNESS:
DATE: <u>03 / 10 / 2019</u> (day / month / year)	ADDRESS OF WITNESS:

Docket No.: P-566702-US

FULL NAME OF INVENTOR: Yehonatan WASSERMAN	FULL NAME OF WITNESS:
SIGNATURE OF INVENTOR: 	SIGNATURE OF WITNESS:
DATE: <u>03/10/2013</u> (day / month / year)	ADDRESS OF WITNESS:

- 3 -

RECORDED: 09/12/2021

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