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## NOTICE OF ALLOWANCE AND FEE(S) DUE

3624 7590 03/29/2023  
VOLPE KOENIG  
30 SOUTH 17TH STREET, 18TH FLOOR  
PHILADELPHIA, PA 19103

|                    |              |
|--------------------|--------------|
| EXAMINER           |              |
| DEAN, JR, JOSEPH E |              |
| ART UNIT           | PAPER NUMBER |
| 2647               |              |

DATE MAILED: 03/29/2023

| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|-----------------|-------------|----------------------|---------------------|------------------|
| 17/959,697      | 10/04/2022  | Graham Merrett       | RMT-PT001.19        | 5973             |

TITLE OF INVENTION: UNDELIVERED MESSAGE THRESHOLD

| APPLN. TYPE    | ENTITY STATUS | ISSUE FEE DUE | PUBLICATION FEE DUE | PREV. PAID ISSUE FEE | TOTAL FEE(S) DUE | DATE DUE   |
|----------------|---------------|---------------|---------------------|----------------------|------------------|------------|
| nonprovisional | UNDISCOUNTED  | \$1200        | \$0.00              | \$0.00               | \$1200           | 06/29/2023 |

**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](http://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)

3624 7590 03/29/2023  
VOLPE KOENIG  
30 SOUTH 17TH STREET, 18TH FLOOR  
PHILADELPHIA, PA 19103

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. |
|-----------------|-------------|----------------------|---------------------|------------------|
| 17/959,697      | 10/04/2022  | Graham Merrett       | RMT-PT001.19        | 5973             |

TITLE OF INVENTION: UNDELIVERED MESSAGE THRESHOLD

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|----------------|---------------|---------------|---------------------|----------------------|------------------|------------|
| nonprovisional | UNDISCOUNTED  | \$1200        | \$0.00              | \$0.00               | \$1200           | 06/29/2023 |

| EXAMINER           | ART UNIT | CLASS-SUBCLASS |
|--------------------|----------|----------------|
| DEAN, JR, JOSEPH E | 2647     | 370-338000     |

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

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

2. For printing on the patent front page, list

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

1. \_\_\_\_\_

2. \_\_\_\_\_

3. \_\_\_\_\_

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

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

(A) NAME OF ASSIGNEE

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

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

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

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

- ☐ Electronic Payment via 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. \_\_\_\_\_



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| 3624                             | 7590        | 03/29/2023           | EXAMINER            |                  |
| VOLPE KOENIG                     |             |                      | DEAN, JR, JOSEPH E  |                  |
| 30 SOUTH 17TH STREET, 18TH FLOOR |             |                      | ART UNIT            |                  |
| PHILADELPHIA, PA 19103           |             |                      | PAPER NUMBER        |                  |
|                                  |             |                      | 2647                |                  |
| DATE MAILED: 03/29/2023          |             |                      |                     |                  |

## 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.

|                               |                                      |                                        |                                |
|-------------------------------|--------------------------------------|----------------------------------------|--------------------------------|
| <b>Notice of Allowability</b> | <b>Application No.</b><br>17/959,697 | <b>Applicant(s)</b><br>Merrett, Graham |                                |
|                               | <b>Examiner</b><br>JOSEPH E DEAN, JR | <b>Art Unit</b><br>2647                | <b>AIA (FITF) Status</b><br>No |

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

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

1. ☒ This communication is responsive to 3/16/23.  
☐ 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](http://www.uspto.gov/patents/init_events/pph/index.jsp) or send an inquiry to [PPHfeedback@uspto.gov](mailto:PPHfeedback@uspto.gov).

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

**Certified copies:**

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

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

\* Certified copies not received: \_\_\_\_\_.

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

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

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

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

**Attachment(s)**

|                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                              |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)<br>2. <input checked="" type="checkbox"/> Information Disclosure Statements (PTO/SB/08),<br>Paper No./Mail Date _____.<br>3. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit<br>of Biological Material _____.<br>4. <input type="checkbox"/> Interview Summary (PTO-413),<br>Paper No./Mail Date _____. | 5. <input type="checkbox"/> Examiner's Amendment/Comment<br>6. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance<br>7. <input type="checkbox"/> Other _____. |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|                                                        |  |
|--------------------------------------------------------|--|
| /JOSEPH E DEAN, JR/<br>Primary Examiner, Art Unit 2647 |  |
|--------------------------------------------------------|--|

***Notice of Pre-AIA or AIA Status***

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

***Allowable Subject Matter***

2. In view of amended claims filed on 03/16/2023, terminal disclaimer and further search, Claims 1-30 are allowed over prior art.

The following is a statement of reasons for the indication of allowable subject matter: It's interpreted, the prior art of record either singularly or in proper combination fails to teach wherein response to receipt of the second information, sends a second response to the sending mobile phone, the second response communicating a different query result than the first response; the sending mobile phone sends the second message via a wireless local area network (WLAN) and via the PSMS, to the second receiving mobile phone on a condition that a maximum number of undelivered messages corresponding to the second receiving mobile phone has not been exceeded; the PSMS is a service for sending and receiving packet switched messages other than SMS, enhanced message service (EMS) and multimedia message service (MMS) messages.

Prior art teaches a method for providing access to content using a global textsite platform (GTP), including receiving, from a user device associated with a device identifier, a first user message including a first navigation state identifier of a sequential plurality of navigation state identifiers, identifying a first text page of the textsite associated with the first navigation state identifier and a system and method are disclosed for communicating messages between users that use different messaging services. A message from a user communication device is communicated to a remote user.

However, the prior art fails to teach the claimed limitation wherein response to receipt of the second information, sends a second response to the sending mobile phone, the second response communicating a different query result than the first response; the sending mobile phone sends the second message via a wireless local area network (WLAN) and via the PSMS, to the second receiving mobile phone on a condition that a maximum number of undelivered messages corresponding to the second receiving mobile phone has not been exceeded; the PSMS is a service for sending and receiving packet switched messages other than SMS, enhanced message service (EMS) and multimedia message service (MMS) messages. Therefore, the prior art of record either singularly or in combination fails to

teach the above claimed limitations for claim 1, 7, 13 and 19 is therefore the reason for allowance. All dependent claims are therefore allowed under same reasons set forth above.

***Conclusion***

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

Examiner interviews are available via telephone, in-person, and video conferencing using a USPTO supplied web-based collaboration tool. To schedule an interview, applicant is encouraged to use the USPTO Automated Interview Request (AIR) at <http://www.uspto.gov/interviewpractice>.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Srilakshmi Kumar can be reached on 571-272-7769. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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

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

|                                          |                                       |  |                                                               |             |
|------------------------------------------|---------------------------------------|--|---------------------------------------------------------------|-------------|
| <b><i>Notice of References Cited</i></b> | Application/Control No.<br>17/959,697 |  | Applicant(s)/Patent Under<br>Reexamination<br>Merrett, Graham |             |
|                                          | Examiner<br>JOSEPH E DEAN, JR         |  | Art Unit<br>2647                                              | Page 1 of 1 |

#### U.S. PATENT DOCUMENTS

| * |   | Document Number<br>Country Code-Number-Kind Code | Date<br>MM-YYYY | Name             | CPC Classification | US Classification |
|---|---|--------------------------------------------------|-----------------|------------------|--------------------|-------------------|
| * | A | US-20040148400-A1                                | 07-2004         | Mostafa, Miraj   | H04N21/6131        | 709/227           |
| * | B | US-20070299930-A1                                | 12-2007         | Wendelrup; Heino | H04L67/06          | 709/217           |
|   | C |                                                  |                 |                  |                    |                   |
|   | D |                                                  |                 |                  |                    |                   |
|   | E |                                                  |                 |                  |                    |                   |
|   | F |                                                  |                 |                  |                    |                   |
|   | G |                                                  |                 |                  |                    |                   |
|   | H |                                                  |                 |                  |                    |                   |
|   | I |                                                  |                 |                  |                    |                   |
|   | J |                                                  |                 |                  |                    |                   |
|   | K |                                                  |                 |                  |                    |                   |
|   | L |                                                  |                 |                  |                    |                   |
|   | M |                                                  |                 |                  |                    |                   |

#### FOREIGN PATENT DOCUMENTS

| * |   | Document Number<br>Country Code-Number-Kind Code | Date<br>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.

|                                                                                                          |                                              |                                                                   |
|----------------------------------------------------------------------------------------------------------|----------------------------------------------|-------------------------------------------------------------------|
| <b>Search Notes</b><br> | <b>Application/Control No.</b><br>17/959,697 | <b>Applicant(s)/Patent Under Reexamination</b><br>Merrett, Graham |
|                                                                                                          | <b>Examiner</b><br>JOSEPH E DEAN, JR         | <b>Art Unit</b><br>2647                                           |

|                                                                                                                 |             |                 |
|-----------------------------------------------------------------------------------------------------------------|-------------|-----------------|
| <b>CPC - Searched*</b>                                                                                          |             |                 |
| <b>Symbol</b>                                                                                                   | <b>Date</b> | <b>Examiner</b> |
| H04W4/14 or H04L51/56 or H04L51/58 or H04L69/24 or H04W4/18 or H04W8/183 or H04L51/04 or H04W84/12 or H04W88/06 | 12/14/2022  | J. Dean         |

|                                         |             |                 |
|-----------------------------------------|-------------|-----------------|
| <b>CPC Combination Sets - Searched*</b> |             |                 |
| <b>Symbol</b>                           | <b>Date</b> | <b>Examiner</b> |
|                                         |             |                 |

|                                      |                 |             |                 |
|--------------------------------------|-----------------|-------------|-----------------|
| <b>US Classification - Searched*</b> |                 |             |                 |
| <b>Class</b>                         | <b>Subclass</b> | <b>Date</b> | <b>Examiner</b> |
|                                      |                 |             |                 |

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

|                                                    |             |                 |
|----------------------------------------------------|-------------|-----------------|
| <b>Search Notes</b>                                |             |                 |
| <b>Search Notes</b>                                | <b>Date</b> | <b>Examiner</b> |
| PE2E and Text search                               | 12/14/2022  | J. Dean         |
| PE2E and text search; claims and inventor's search | 03/23/2023  | J. Dean         |

|                            |                                 |             |                 |
|----------------------------|---------------------------------|-------------|-----------------|
| <b>Interference Search</b> |                                 |             |                 |
| <b>US Class/CPC Symbol</b> | <b>US Subclass/CPC Group</b>    | <b>Date</b> | <b>Examiner</b> |
| H04W                       | 4/14, 4/18, 8/183, 84/12, 88/06 | 03/23/2023  | J. Dean         |
| H04L                       | 51/56, 51/58, 69/24, 51/04      | 03/23/2023  | J. Dean         |

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|                                                                                                                  |                                              |                                                                   |  |
|------------------------------------------------------------------------------------------------------------------|----------------------------------------------|-------------------------------------------------------------------|--|
| <b>Issue Classification</b><br> | <b>Application/Control No.</b><br>17/959,697 | <b>Applicant(s)/Patent Under Reexamination</b><br>Merrett, Graham |  |
|                                                                                                                  | <b>Examiner</b><br>JOSEPH E DEAN, JR         | <b>Art Unit</b><br>2647                                           |  |

| CPC    |   |    |   |     |      |            |  |
|--------|---|----|---|-----|------|------------|--|
| Symbol |   |    |   |     | Type | Version    |  |
| H04W   | / | 4  | / | 14  | F    | 2013-01-01 |  |
| H04W   | / | 4  | / | 18  | I    | 2013-01-01 |  |
| H04L   | / | 69 | / | 24  | I    | 2013-01-01 |  |
| H04L   | / | 51 | / | 56  | I    | 2022-05-01 |  |
| H04L   | / | 51 | / | 58  | I    | 2022-05-01 |  |
| H04W   | / | 8  | / | 183 | I    | 2013-01-01 |  |
| H04L   | / | 51 | / | 04  | A    | 2013-01-01 |  |
| H04W   | / | 84 | / | 12  | A    | 2013-01-01 |  |
| H04W   | / | 88 | / | 06  | A    | 2013-01-01 |  |

| CPC Combination Sets |   |  |      |     |         |
|----------------------|---|--|------|-----|---------|
| Symbol               |   |  | Type | Set | Ranking |
|                      | / |  |      |     |         |

|                                                        |               |                              |                   |
|--------------------------------------------------------|---------------|------------------------------|-------------------|
| NONE                                                   |               | <b>Total Claims Allowed:</b> |                   |
| (Assistant Examiner)                                   | (Date)        | 30                           |                   |
| /JOSEPH E DEAN, JR/<br>Primary Examiner, Art Unit 2647 | 24 March 2023 | O.G. Print Claim(s)          | O.G. Print Figure |
| (Primary Examiner)                                     | (Date)        | 1                            | 3                 |

|                                                                                                                  |                                              |                                                                   |
|------------------------------------------------------------------------------------------------------------------|----------------------------------------------|-------------------------------------------------------------------|
| <b>Issue Classification</b><br> | <b>Application/Control No.</b><br>17/959,697 | <b>Applicant(s)/Patent Under Reexamination</b><br>Merrett, Graham |
|                                                                                                                  | <b>Examiner</b><br>JOSEPH E DEAN, JR         | <b>Art Unit</b><br>2647                                           |

|                                     |   |   |      |
|-------------------------------------|---|---|------|
| <b>INTERNATIONAL CLASSIFICATION</b> |   |   |      |
| <b>CLAIMED</b>                      |   |   |      |
| H04W                                | / | 8 | / 18 |
| <b>NON-CLAIMED</b>                  |   |   |      |
|                                     |   |   |      |

|                                   |                 |
|-----------------------------------|-----------------|
| <b>US ORIGINAL CLASSIFICATION</b> |                 |
| <b>CLASS</b>                      | <b>SUBCLASS</b> |
|                                   |                 |

|                            |                                          |  |  |  |  |  |
|----------------------------|------------------------------------------|--|--|--|--|--|
| <b>CROSS REFERENCES(S)</b> |                                          |  |  |  |  |  |
| <b>CLASS</b>               | <b>SUBCLASS (ONE SUBCLASS PER BLOCK)</b> |  |  |  |  |  |
|                            |                                          |  |  |  |  |  |

|                                                                              |                         |                              |                        |
|------------------------------------------------------------------------------|-------------------------|------------------------------|------------------------|
| NONE                                                                         |                         | <b>Total Claims Allowed:</b> |                        |
| (Assistant Examiner)                                                         | (Date)                  | 30                           |                        |
| /JOSEPH E DEAN, JR/<br>Primary Examiner, Art Unit 2647<br>(Primary Examiner) | 24 March 2023<br>(Date) | O.G. Print Claim(s)<br>1     | O.G. Print Figure<br>3 |

|                                                                                                                  |                                              |                                                                   |
|------------------------------------------------------------------------------------------------------------------|----------------------------------------------|-------------------------------------------------------------------|
| <b>Issue Classification</b><br> | <b>Application/Control No.</b><br>17/959,697 | <b>Applicant(s)/Patent Under Reexamination</b><br>Merrett, Graham |
|                                                                                                                  | <b>Examiner</b><br>JOSEPH E DEAN, JR         | <b>Art Unit</b><br>2647                                           |

|                                                                                        |                              |                                          |                                 |
|----------------------------------------------------------------------------------------|------------------------------|------------------------------------------|---------------------------------|
| <input type="checkbox"/> Claims renumbered in the same order as presented by applicant | <input type="checkbox"/> CPA | <input checked="" type="checkbox"/> T.D. | <input type="checkbox"/> R.1.47 |
|----------------------------------------------------------------------------------------|------------------------------|------------------------------------------|---------------------------------|

| CLAIMS |          |       |          |       |          |       |          |       |          |       |          |       |          |       |          |
|--------|----------|-------|----------|-------|----------|-------|----------|-------|----------|-------|----------|-------|----------|-------|----------|
| Final  | Original | Final | Original | Final | Original | Final | Original | Final | Original | Final | Original | Final | Original | Final | Original |
| 1      | 1        | 10    | 10       | 20    | 19       | 28    | 28       |       |          |       |          |       |          |       |          |
| 2      | 2        | 11    | 11       | 21    | 20       | 30    | 29       |       |          |       |          |       |          |       |          |
| 3      | 3        | 12    | 12       | 22    | 21       | 13    | 30       |       |          |       |          |       |          |       |          |
| 4      | 4        | 14    | 13       | 23    | 22       |       |          |       |          |       |          |       |          |       |          |
| 5      | 5        | 15    | 14       | 24    | 23       |       |          |       |          |       |          |       |          |       |          |
| 6      | 6        | 16    | 15       | 25    | 24       |       |          |       |          |       |          |       |          |       |          |
| 7      | 7        | 17    | 16       | 26    | 25       |       |          |       |          |       |          |       |          |       |          |
| 8      | 8        | 18    | 17       | 27    | 26       |       |          |       |          |       |          |       |          |       |          |
| 9      | 9        | 19    | 18       | 29    | 27       |       |          |       |          |       |          |       |          |       |          |

|                                                                                                         |                                    |                        |
|---------------------------------------------------------------------------------------------------------|------------------------------------|------------------------|
| NONE<br><br>(Assistant Examiner) _____ (Date) _____                                                     | <b>Total Claims Allowed:</b><br>30 |                        |
| /JOSEPH E DEAN, JR/<br>Primary Examiner, Art Unit 2647<br>(Primary Examiner) _____ (Date) 24 March 2023 | O.G. Print Claim(s)<br>1           | O.G. Print Figure<br>3 |

# PE2E SEARCH - Search History (Prior Art)

| Ref # | Hits   | Search Query                                                                                                                   | DBs                                                                                                                                                                                                                                                                                                                  | Default Operator | Plurals | British Equivalents | Time Stamp          |
|-------|--------|--------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|---------|---------------------|---------------------|
| L1    | 96875  | ((recei\$4 OR obtain\$3) near4 (packet switched) near3 (message OR text))                                                      | (US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB) | OR               | ON      | ON                  | 2022/09/09 09:04 PM |
| L2    | 772559 | ((format\$4 OR arrang\$4) near4 (message OR text))                                                                             | (US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB) | OR               | ON      | ON                  | 2022/09/09 09:09 PM |
| L3    | 6094   | 1 AND ((H04W4/14 OR H04L51/56 OR H04L51/58 OR H04L69/24 OR H04W4/18 OR H04W8/183 OR H04L51/04 OR H04W84/12 OR H04W88/06).cpc.) | (US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB) | OR               | ON      | ON                  | 2022/09/09 09:15 PM |
| L4    | 22550  | 1 AND 2                                                                                                                        | (US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU,                                                                                                                                                                                                                                        | OR               | ON      | ON                  | 2022/09/09 09:16 PM |

|    |      |                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |    |    |    |                     |
|----|------|--------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|----|----|---------------------|
| L5 | 1952 | 4 AND ((H04W4/14 OR H04L51/56 OR H04L51/58 OR H04L69/24 OR H04W4/18 OR H04W8/183 OR H04L51/04 OR H04W84/12 OR H04W88/06).cpc.) | CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)<br>(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB) | OR | ON | ON | 2022/09/09 09:16 PM |
| L6 | 48   | ((transmit\$4 OR send\$3 OR forward\$3) near4 (message OR text) near4 (WLAN) near4 (provider))                                 | (US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)                                                                                                                                                                                                                                           | OR | ON | ON | 2022/09/09 09:28 PM |
| L7 | 40   | 6 AND ((H04W4/14 OR H04L51/56 OR H04L51/58 OR H04L69/24 OR H04W4/18 OR H04W8/183 OR H04L51/04 OR H04W84/12 OR H04W88/06).cpc.) | (US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN,                                                                                                                                                                                                                                                                                  | OR | ON | ON | 2022/09/09 09:28 PM |

|     |       |                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                   |    |    |    |                        |
|-----|-------|--------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|----|----|------------------------|
| L8  | 30    | 7 AND 2                                                                                                                              | WO); FPRS; EPO;<br>JPO; DERWENT;<br>IBM_TDB)<br>(US-PGPUB; USPAT;<br>USOCR; FIT (AP, AT,<br>AU, BE, BG, BR, BY,<br>CA, CH, CN, CS, CU,<br>CZ, DD, DE, DK, EA,<br>EE, EP, ES, FI, FR, GB,<br>HR, HU, ID, IE, IL, IS,<br>IT, JP, KR, LT, LU, LV,<br>MA, MC, MD, MY, NL,<br>NO, NZ, OA, PH, PL,<br>PT, RO, RS, RU, SE,<br>SG, SI, SK, SU, TH,<br>TN, TR, TW, UA, VN,<br>WO); FPRS; EPO;<br>JPO; DERWENT;<br>IBM_TDB) | OR | ON | ON | 2022/09/09<br>09:29 PM |
| L9  | 16689 | ((format\$4 OR<br>arrang\$4) near4<br>(message OR text)<br>near4 (EMS OR MMS<br>OR SMS))                                             | (US-PGPUB; USPAT;<br>USOCR; FIT (AP, AT,<br>AU, BE, BG, BR, BY,<br>CA, CH, CN, CS, CU,<br>CZ, DD, DE, DK, EA,<br>EE, EP, ES, FI, FR, GB,<br>HR, HU, ID, IE, IL, IS,<br>IT, JP, KR, LT, LU, LV,<br>MA, MC, MD, MY, NL,<br>NO, NZ, OA, PH, PL,<br>PT, RO, RS, RU, SE,<br>SG, SI, SK, SU, TH,<br>TN, TR, TW, UA, VN,<br>WO); FPRS; EPO;<br>JPO; DERWENT;<br>IBM_TDB)                                                 | OR | ON | ON | 2022/09/09<br>11:00 PM |
| L10 | 3418  | ((time OR period)<br>near4(between) near4<br>(first AND second)<br>near4 (message OR<br>text))                                       | (US-PGPUB; USPAT;<br>USOCR; FIT (AP, AT,<br>AU, BE, BG, BR, BY,<br>CA, CH, CN, CS, CU,<br>CZ, DD, DE, DK, EA,<br>EE, EP, ES, FI, FR, GB,<br>HR, HU, ID, IE, IL, IS,<br>IT, JP, KR, LT, LU, LV,<br>MA, MC, MD, MY, NL,<br>NO, NZ, OA, PH, PL,<br>PT, RO, RS, RU, SE,<br>SG, SI, SK, SU, TH,<br>TN, TR, TW, UA, VN,<br>WO); FPRS; EPO;<br>JPO; DERWENT;<br>IBM_TDB)                                                 | OR | ON | ON | 2022/09/09<br>11:31 PM |
| L11 | 0     | ((provider) near4<br>(unaware OR ignorant<br>OR uninform\$2 OR "not<br>aware") near4 (time OR<br>timing) near4 (message<br>OR text)) | (US-PGPUB; USPAT;<br>USOCR; FIT (AP, AT,<br>AU, BE, BG, BR, BY,<br>CA, CH, CN, CS, CU,<br>CZ, DD, DE, DK, EA,<br>EE, EP, ES, FI, FR, GB,                                                                                                                                                                                                                                                                          | OR | ON | ON | 2022/09/09<br>11:48 PM |

|     |    |                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |    |    |    |                     |
|-----|----|----------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|----|----|---------------------|
| L12 | 16 | ((provider) near4 (unaware OR ignorant OR uninformed\$2 OR "not aware") near4 (time OR timing))                            | HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)<br>(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB) | OR | ON | ON | 2022/09/09 11:49 PM |
| L13 | 16 | ((provider) near4 (unaware OR ignorant OR uninformed\$2 OR "not aware") near4 (time OR timing OR "phone number"))          | (US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)                                                                                                                                                                                               | OR | ON | ON | 2022/09/10 07:23 AM |
| L14 | 26 | ((provider) near4 (unaware OR ignorant OR uninformed\$2 OR "not aware") near4 (time OR timing OR "phone number" OR email)) | (US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT;                                                                                                                                                                                                        | OR | ON | ON | 2022/09/10 07:24 AM |

|     |     |                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                  |    |    |    |                     |
|-----|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|----|----|---------------------|
| L15 | 0   | ((("packet switching message") near4 (subscri\$5) near4 (service) near4 (mobile OR "UE" OR "user equipment" OR "subscriber station" OR smartphone OR "PDA")) | IBM_TDB)<br>(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB) | OR | ON | ON | 2022/09/10 08:09 AM |
| L16 | 0   | ((("packet switching message") near4 (service) near4 (mobile OR "UE" OR "user equipment" OR "subscriber station" OR smartphone OR "PDA"))                    | (US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)             | OR | ON | ON | 2022/09/10 08:09 AM |
| L17 | 248 | ((("packet switching ") near4 (message OR text) near4 (mobile OR "UE" OR "user equipment" OR "subscriber station" OR smartphone OR "PDA"))                   | (US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)             | OR | ON | ON | 2022/09/10 08:10 AM |
| L18 | 116 | ((("packet switching ") near4 (message OR text) near4 (service) near5 (mobile OR "UE" OR "user equipment" OR "subscriber station" OR smartphone OR "PDA"))   | (US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV,                                                                                                                                                        | OR | ON | ON | 2022/09/10 08:11 AM |

|     |      |                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |    |    |    |                     |
|-----|------|---------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|----|----|---------------------|
| L19 | 25   | 18 AND ((H04W4/14 OR H04L51/56 OR H04L51/58 OR H04L69/24 OR H04W4/18 OR H04W8/183 OR H04L51/04 OR H04W84/12 OR H04W88/06).cpc.) | MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)<br>(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB) | OR | ON | ON | 2022/09/10 08:11 AM |
| L20 | 63   | 17 AND ((H04W4/14 OR H04L51/56 OR H04L51/58 OR H04L69/24 OR H04W4/18 OR H04W8/183 OR H04L51/04 OR H04W84/12 OR H04W88/06).cpc.) | (US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)                                                                                                                                               | OR | ON | ON | 2022/09/10 08:16 AM |
| L21 | 3475 | ((("packet switching ") near4 (message OR text))                                                                                | (US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)                                                                                                                                               | OR | ON | ON | 2022/09/10 08:21 AM |
| L22 | 308  | 21 AND ((H04W4/14                                                                                                               | (US-PGPUB; USPAT;                                                                                                                                                                                                                                                                                                                                                                                                                                                  | OR | ON | ON | 2022/09/10          |

|     |       |                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                   |    |    |    |                        |
|-----|-------|------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|----|----|------------------------|
|     |       | OR H04L51/56 OR<br>H04L51/58 OR<br>H04L69/24 OR<br>H04W4/18 OR<br>H04W8/183 OR<br>H04L51/04 OR<br>H04W84/12 OR<br>H04W88/06).cpc.) | USOCR; FIT (AP, AT,<br>AU, BE, BG, BR, BY,<br>CA, CH, CN, CS, CU,<br>CZ, DD, DE, DK, EA,<br>EE, EP, ES, FI, FR, GB,<br>HR, HU, ID, IE, IL, IS,<br>IT, JP, KR, LT, LU, LV,<br>MA, MC, MD, MY, NL,<br>NO, NZ, OA, PH, PL,<br>PT, RO, RS, RU, SE,<br>SG, SI, SK, SU, TH,<br>TN, TR, TW, UA, VN,<br>WO); FPRS; EPO;<br>JPO; DERWENT;<br>IBM_TDB)                      |    |    |    | 08:21 AM               |
| L23 | 3709  | ((("packet switching ")<br>near4 (message OR<br>text OR SMS))                                                                      | (US-PGPUB; USPAT;<br>USOCR; FIT (AP, AT,<br>AU, BE, BG, BR, BY,<br>CA, CH, CN, CS, CU,<br>CZ, DD, DE, DK, EA,<br>EE, EP, ES, FI, FR, GB,<br>HR, HU, ID, IE, IL, IS,<br>IT, JP, KR, LT, LU, LV,<br>MA, MC, MD, MY, NL,<br>NO, NZ, OA, PH, PL,<br>PT, RO, RS, RU, SE,<br>SG, SI, SK, SU, TH,<br>TN, TR, TW, UA, VN,<br>WO); FPRS; EPO;<br>JPO; DERWENT;<br>IBM_TDB) | OR | ON | ON | 2022/09/10<br>08:28 AM |
| L24 | 47148 | ((author\$7 OR<br>author\$8) near5 (phone<br>OR mobile) near4<br>(number))                                                         | (US-PGPUB; USPAT;<br>USOCR; FIT (AP, AT,<br>AU, BE, BG, BR, BY,<br>CA, CH, CN, CS, CU,<br>CZ, DD, DE, DK, EA,<br>EE, EP, ES, FI, FR, GB,<br>HR, HU, ID, IE, IL, IS,<br>IT, JP, KR, LT, LU, LV,<br>MA, MC, MD, MY, NL,<br>NO, NZ, OA, PH, PL,<br>PT, RO, RS, RU, SE,<br>SG, SI, SK, SU, TH,<br>TN, TR, TW, UA, VN,<br>WO); FPRS; EPO;<br>JPO; DERWENT;<br>IBM_TDB) | OR | ON | ON | 2022/09/10<br>08:29 AM |
| L25 | 23    | 23 AND 24                                                                                                                          | (US-PGPUB; USPAT;<br>USOCR; FIT (AP, AT,<br>AU, BE, BG, BR, BY,<br>CA, CH, CN, CS, CU,<br>CZ, DD, DE, DK, EA,<br>EE, EP, ES, FI, FR, GB,<br>HR, HU, ID, IE, IL, IS,<br>IT, JP, KR, LT, LU, LV,<br>MA, MC, MD, MY, NL,<br>NO, NZ, OA, PH, PL,                                                                                                                      | OR | ON | ON | 2022/09/10<br>08:29 AM |

|     |      |                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                            |    |    |    |                     |
|-----|------|---------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|----|----|---------------------|
| L26 | 3    | 25 AND ((H04W4/14 OR H04L51/56 OR H04L51/58 OR H04L69/24 OR H04W4/18 OR H04W8/183 OR H04L51/04 OR H04W84/12 OR H04W88/06).cpc.) | PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)<br>(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB) | OR | ON | ON | 2022/09/10 08:31 AM |
| L27 | 270  | ((("packet switching ") near4 ( SMS) near4 (message))                                                                           | (US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)                                                                                                       | OR | ON | ON | 2022/09/10 08:32 AM |
| L28 | 36   | 27 AND ((H04W4/14 OR H04L51/56 OR H04L51/58 OR H04L69/24 OR H04W4/18 OR H04W8/183 OR H04L51/04 OR H04W84/12 OR H04W88/06).cpc.) | (US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)                                                                                                       | OR | ON | ON | 2022/09/10 08:32 AM |
| L29 | 3871 | 24 AND ((H04W4/14 OR H04L51/56 OR H04L51/58 OR                                                                                  | (US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY,                                                                                                                                                                                                                                                                                                                                                                  | OR | ON | ON | 2022/09/10 08:57 AM |

|     |     |                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                   |    |    |    |                        |
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|     |     | H04L69/24 OR<br>H04W4/18 OR<br>H04W8/183 OR<br>H04L51/04 OR<br>H04W84/12 OR<br>H04W88/06).cpc.) | CA, CH, CN, CS, CU,<br>CZ, DD, DE, DK, EA,<br>EE, EP, ES, FI, FR, GB,<br>HR, HU, ID, IE, IL, IS,<br>IT, JP, KR, LT, LU, LV,<br>MA, MC, MD, MY, NL,<br>NO, NZ, OA, PH, PL,<br>PT, RO, RS, RU, SE,<br>SG, SI, SK, SU, TH,<br>TN, TR, TW, UA, VN,<br>WO); FPRS; EPO;<br>JPO; DERWENT;<br>IBM_TDB)                                                                    |    |    |    |                        |
| L30 | 647 | ((("packet switching ")<br>near4 ( SMS))                                                        | (US-PGPUB; USPAT;<br>USOCR; FIT (AP, AT,<br>AU, BE, BG, BR, BY,<br>CA, CH, CN, CS, CU,<br>CZ, DD, DE, DK, EA,<br>EE, EP, ES, FI, FR, GB,<br>HR, HU, ID, IE, IL, IS,<br>IT, JP, KR, LT, LU, LV,<br>MA, MC, MD, MY, NL,<br>NO, NZ, OA, PH, PL,<br>PT, RO, RS, RU, SE,<br>SG, SI, SK, SU, TH,<br>TN, TR, TW, UA, VN,<br>WO); FPRS; EPO;<br>JPO; DERWENT;<br>IBM_TDB) | OR | ON | ON | 2022/09/10<br>08:58 AM |
| L31 | 3   | 30 AND 29                                                                                       | (US-PGPUB; USPAT;<br>USOCR; FIT (AP, AT,<br>AU, BE, BG, BR, BY,<br>CA, CH, CN, CS, CU,<br>CZ, DD, DE, DK, EA,<br>EE, EP, ES, FI, FR, GB,<br>HR, HU, ID, IE, IL, IS,<br>IT, JP, KR, LT, LU, LV,<br>MA, MC, MD, MY, NL,<br>NO, NZ, OA, PH, PL,<br>PT, RO, RS, RU, SE,<br>SG, SI, SK, SU, TH,<br>TN, TR, TW, UA, VN,<br>WO); FPRS; EPO;<br>JPO; DERWENT;<br>IBM_TDB) | OR | ON | ON | 2022/09/10<br>08:58 AM |
| L32 | 5   | "17740919"                                                                                      | (US-PGPUB; USPAT;<br>USOCR; FIT (AP, AT,<br>AU, BE, BG, BR, BY,<br>CA, CH, CN, CS, CU,<br>CZ, DD, DE, DK, EA,<br>EE, EP, ES, FI, FR, GB,<br>HR, HU, ID, IE, IL, IS,<br>IT, JP, KR, LT, LU, LV,<br>MA, MC, MD, MY, NL,<br>NO, NZ, OA, PH, PL,<br>PT, RO, RS, RU, SE,<br>SG, SI, SK, SU, TH,                                                                        | OR | ON | ON | 2022/09/10<br>10:43 AM |

|     |    |            |                                                                                                                                                                                                                                                                                                                                                                                                                                          |    |    |    |                        |
|-----|----|------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|----|----|------------------------|
| L33 | 5  | "17717720" | TN, TR, TW, UA, VN,<br>WO); FPRS; EPO;<br>JPO; DERWENT;<br>IBM_TDB)<br>(US-PGPUB; USPAT;<br>USOCR; FIT (AP, AT,<br>AU, BE, BG, BR, BY,<br>CA, CH, CN, CS, CU,<br>CZ, DD, DE, DK, EA,<br>EE, EP, ES, FI, FR, GB,<br>HR, HU, ID, IE, IL, IS,<br>IT, JP, KR, LT, LU, LV,<br>MA, MC, MD, MY, NL,<br>NO, NZ, OA, PH, PL,<br>PT, RO, RS, RU, SE,<br>SG, SI, SK, SU, TH,<br>TN, TR, TW, UA, VN,<br>WO); FPRS; EPO;<br>JPO; DERWENT;<br>IBM_TDB) | OR | ON | ON | 2022/09/10<br>10:45 AM |
| L34 | 8  | "17348348" | (US-PGPUB; USPAT;<br>USOCR; FIT (AP, AT,<br>AU, BE, BG, BR, BY,<br>CA, CH, CN, CS, CU,<br>CZ, DD, DE, DK, EA,<br>EE, EP, ES, FI, FR, GB,<br>HR, HU, ID, IE, IL, IS,<br>IT, JP, KR, LT, LU, LV,<br>MA, MC, MD, MY, NL,<br>NO, NZ, OA, PH, PL,<br>PT, RO, RS, RU, SE,<br>SG, SI, SK, SU, TH,<br>TN, TR, TW, UA, VN,<br>WO); FPRS; EPO;<br>JPO; DERWENT;<br>IBM_TDB)                                                                        | OR | ON | ON | 2022/09/10<br>10:47 AM |
| L35 | 19 | "11044584" | (US-PGPUB; USPAT;<br>USOCR; FIT (AP, AT,<br>AU, BE, BG, BR, BY,<br>CA, CH, CN, CS, CU,<br>CZ, DD, DE, DK, EA,<br>EE, EP, ES, FI, FR, GB,<br>HR, HU, ID, IE, IL, IS,<br>IT, JP, KR, LT, LU, LV,<br>MA, MC, MD, MY, NL,<br>NO, NZ, OA, PH, PL,<br>PT, RO, RS, RU, SE,<br>SG, SI, SK, SU, TH,<br>TN, TR, TW, UA, VN,<br>WO); FPRS; EPO;<br>JPO; DERWENT;<br>IBM_TDB)                                                                        | OR | ON | ON | 2022/09/10<br>11:05 AM |
| L36 | 23 | "10893395" | (US-PGPUB; USPAT;<br>USOCR; FIT (AP, AT,<br>AU, BE, BG, BR, BY,<br>CA, CH, CN, CS, CU,<br>CZ, DD, DE, DK, EA,                                                                                                                                                                                                                                                                                                                            | OR | ON | ON | 2022/09/10<br>11:11 AM |

|     |     |                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |    |    |    |                     |
|-----|-----|---------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|----|----|---------------------|
| L37 | 17  | "11218847"                                                                                                                      | EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)<br>(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB) | OR | ON | ON | 2022/09/10 11:12 AM |
| L38 | 922 | ((authent\$7 OR author\$8) near5 (phone OR mobile) near4 (number) near3 (SMS))                                                  | (US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)                                                                                                                                                                                                                       | OR | ON | ON | 2022/09/10 11:49 AM |
| L39 | 202 | 38 AND ((H04W4/14 OR H04L51/56 OR H04L51/58 OR H04L69/24 OR H04W4/18 OR H04W8/183 OR H04L51/04 OR H04W84/12 OR H04W88/06).cpc.) | (US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO;                                                                                                                                                                                                                                              | OR | ON | ON | 2022/09/10 11:49 AM |

|     |      |                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                |    |    |    |                        |
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| L40 | 16   | 39 AND 9                                                                                                                                                              | JPO; DERWENT;<br>IBM_TDB)<br>(US-PGPUB; USPAT;<br>USOCR; FIT (AP, AT,<br>AU, BE, BG, BR, BY,<br>CA, CH, CN, CS, CU,<br>CZ, DD, DE, DK, EA,<br>EE, EP, ES, FI, FR, GB,<br>HR, HU, ID, IE, IL, IS,<br>IT, JP, KR, LT, LU, LV,<br>MA, MC, MD, MY, NL,<br>NO, NZ, OA, PH, PL,<br>PT, RO, RS, RU, SE,<br>SG, SI, SK, SU, TH,<br>TN, TR, TW, UA, VN,<br>WO); FPRS; EPO;<br>JPO; DERWENT;<br>IBM_TDB) | OR | ON | ON | 2022/09/10<br>11:50 AM |
| L41 | 4489 | ((("content provider" OR<br>provider) near4 (locat\$3<br>OR posit\$3) near4 (data<br>OR inform\$6) near5<br>(request\$3 OR<br>demand\$3))                             | (US-PGPUB; USPAT;<br>USOCR; FIT (AP, AT,<br>AU, BE, BG, BR, BY,<br>CA, CH, CN, CS, CU,<br>CZ, DD, DE, DK, EA,<br>EE, EP, ES, FI, FR, GB,<br>HR, HU, ID, IE, IL, IS,<br>IT, JP, KR, LT, LU, LV,<br>MA, MC, MD, MY, NL,<br>NO, NZ, OA, PH, PL,<br>PT, RO, RS, RU, SE,<br>SG, SI, SK, SU, TH,<br>TN, TR, TW, UA, VN,<br>WO); FPRS; EPO;<br>JPO; DERWENT;<br>IBM_TDB)                              | OR | ON | ON | 2022/09/10<br>01:23 PM |
| L42 | 188  | 41 AND ((H04W4/14<br>OR H04L51/56 OR<br>H04L51/58 OR<br>H04L69/24 OR<br>H04W4/18 OR<br>H04W8/183 OR<br>H04L51/04 OR<br>H04W84/12 OR<br>H04W88/06).cpc.)               | (US-PGPUB; USPAT;<br>USOCR; FIT (AP, AT,<br>AU, BE, BG, BR, BY,<br>CA, CH, CN, CS, CU,<br>CZ, DD, DE, DK, EA,<br>EE, EP, ES, FI, FR, GB,<br>HR, HU, ID, IE, IL, IS,<br>IT, JP, KR, LT, LU, LV,<br>MA, MC, MD, MY, NL,<br>NO, NZ, OA, PH, PL,<br>PT, RO, RS, RU, SE,<br>SG, SI, SK, SU, TH,<br>TN, TR, TW, UA, VN,<br>WO); FPRS; EPO;<br>JPO; DERWENT;<br>IBM_TDB)                              | OR | ON | ON | 2022/09/10<br>01:23 PM |
| L43 | 57   | ((("content provider" OR<br>provider) near4 (locat\$3<br>OR posit\$3) near4 (data<br>OR inform\$6) near5<br>(request\$3 OR<br>demand\$3) near20<br>(email OR e-mail)) | (US-PGPUB; USPAT;<br>USOCR; FIT (AP, AT,<br>AU, BE, BG, BR, BY,<br>CA, CH, CN, CS, CU,<br>CZ, DD, DE, DK, EA,<br>EE, EP, ES, FI, FR, GB,<br>HR, HU, ID, IE, IL, IS,                                                                                                                                                                                                                            | OR | ON | ON | 2022/09/10<br>01:24 PM |

|     |      |                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |    |    |    |                     |
|-----|------|---------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|----|----|---------------------|
| L44 | 0    | 43 AND ((H04W4/14 OR H04L51/56 OR H04L51/58 OR H04L69/24 OR H04W4/18 OR H04W8/183 OR H04L51/04 OR H04W84/12 OR H04W88/06).cpc.) | IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)<br>(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB) | OR | ON | ON | 2022/09/10 01:24 PM |
| L45 | 2209 | "voting button"                                                                                                                 | (US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)                                                                                                                                                                       | OR | ON | ON | 2022/09/10 02:06 PM |
| L46 | 87   | 45 AND ((H04W4/14 OR H04L51/56 OR H04L51/58 OR H04L69/24 OR H04W4/18 OR H04W8/183 OR H04L51/04 OR H04W84/12 OR H04W88/06).cpc.) | (US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)                                                                                                                                                                       | OR | ON | ON | 2022/09/10 02:06 PM |

|     |       |                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                      |    |    |    |                     |
|-----|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|----|----|---------------------|
| L47 | 39    | ((identifier) near4 (map) near4 ( phone) near5 (number) near4 (device OR mobile OR "UE" OR "user equipment"))                                                                                      | (US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB) | OR | ON | ON | 2022/09/10 03:00 PM |
| L48 | 5     | 47 AND ((H04W4/14 OR H04L51/56 OR H04L51/58 OR H04L69/24 OR H04W4/18 OR H04W8/183 OR H04L51/04 OR H04W84/12 OR H04W88/06).cpc.)                                                                    | (US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB) | OR | ON | ON | 2022/09/10 03:00 PM |
| L49 | 97900 | ((recei\$4 OR obtain\$3) near4 (packet switched) near3 (message OR text))                                                                                                                          | (US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB) | OR | ON | ON | 2022/10/28 11:20 AM |
| L50 | 0     | ((send\$3 OR transmit\$4 OR forward\$3) near4 ("packet switching message" OR "psms") near4 (subscri\$5) near4 (address OR email) near4 (mobile OR "UE" OR "user equipment" OR "subscriber station" | (US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL,                                                                                                                        | OR | ON | ON | 2022/10/28 01:22 PM |

|     |          |                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                |    |    |    |                     |
|-----|----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|----|----|---------------------|
| L51 | 2600     | OR smartphone OR "PDA"))).clm.<br><br>((packet) near4 (switch\$3) near4 (message OR text) near4 (service))                                                                               | NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)<br>(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB) | OR | ON | ON | 2022/12/15 07:59 AM |
| L52 | 3077     | ((packet) near4 (switch\$3) near4 (message OR text OR "sms") near4 (service))                                                                                                            | (US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)                                                                                                                           | OR | ON | ON | 2022/12/15 08:00 AM |
| L53 | 52403692 | ((send\$3 OR transmit\$4 OR forward\$3) (mobile OR "UE" OR "user equipment" OR "subscriber station" OR smartphone OR "PDA") near4 (extract\$3 OR collect\$3) near4 (informa\$4 OR data)) | (US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)                                                                                                                           | OR | ON | ON | 2022/12/15 08:05 AM |
| L54 | 34954    | ((send\$3 OR transmit\$4 OR forward\$3) near4                                                                                                                                            | (US-PGPUB; USPAT; USOCR; FIT (AP, AT,                                                                                                                                                                                                                                                                                                                                                                                                          | OR | ON | ON | 2022/12/15 08:06 AM |

|     |        |                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                      |    |    |    |                     |
|-----|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|----|----|---------------------|
|     |        | (mobile OR "UE" OR "user equipment" OR "subscriber station" OR smartphone OR "PDA") OR near4 (extract\$3 OR collect\$3) near4 (informa\$4 OR data)) | AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)                                       |    |    |    |                     |
| L55 | 36     | 52 AND 54                                                                                                                                           | (US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB) | OR | ON | ON | 2022/12/15 08:06 AM |
| L56 | 10     | 55 AND ((H04W4/14 OR H04L51/56 OR H04L51/58 OR H04L69/24 OR H04W4/18 OR H04W8/183 OR H04L51/04 OR H04W84/12 OR H04W88/06).cpc.)                     | (US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB) | OR | ON | ON | 2022/12/15 08:07 AM |
| L57 | 163874 | ("Mobile instant messaging" OR "MIM")                                                                                                               | (US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE,                                                                                | OR | ON | ON | 2022/12/15 09:07 AM |

|     |      |                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                        |    |    |    |                     |
|-----|------|----------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|----|----|---------------------|
| L58 | 5    | ((("Mobile instant messaging" OR "MIM") near4 (broken OR interrupt\$5 OR weak\$2 OR temporary OR inconstant OR unsteady) near4 (connection OR internet)) | SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)<br>(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB) | OR | ON | ON | 2022/12/15 09:13 AM |
| L59 | 3    | ((("Mobile instant messaging" OR "MIM") near4 (broken OR interrupt\$5 OR loss ) near4 (connection OR internet))                                          | (US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)                                                                                   | OR | ON | ON | 2022/12/15 09:16 AM |
| L60 | 1288 | 57 AND ((H04W4/14 OR H04L51/56 OR H04L51/58 OR H04L69/24 OR H04W4/18 OR H04W8/183 OR H04L51/04 OR H04W84/12 OR H04W88/06).cpc.)                          | (US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)                                                                                   | OR | ON | ON | 2022/12/15 09:16 AM |
| L61 | 11   | 54 AND 60                                                                                                                                                | (US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU,                                                                                                                                                                                                                                                                                                                          | OR | ON | ON | 2022/12/15 09:17 AM |

|     |     |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |    |    |    |                        |
|-----|-----|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|----|----|------------------------|
| L62 | 203 | "5313582" | CZ, DD, DE, DK, EA,<br>EE, EP, ES, FI, FR, GB,<br>HR, HU, ID, IE, IL, IS,<br>IT, JP, KR, LT, LU, LV,<br>MA, MC, MD, MY, NL,<br>NO, NZ, OA, PH, PL,<br>PT, RO, RS, RU, SE,<br>SG, SI, SK, SU, TH,<br>TN, TR, TW, UA, VN,<br>WO); FPRS; EPO;<br>JPO; DERWENT;<br>IBM_TDB)<br>(US-PGPUB; USPAT;<br>USOCR; FIT (AP, AT,<br>AU, BE, BG, BR, BY,<br>CA, CH, CN, CS, CU,<br>CZ, DD, DE, DK, EA,<br>EE, EP, ES, FI, FR, GB,<br>HR, HU, ID, IE, IL, IS,<br>IT, JP, KR, LT, LU, LV,<br>MA, MC, MD, MY, NL,<br>NO, NZ, OA, PH, PL,<br>PT, RO, RS, RU, SE,<br>SG, SI, SK, SU, TH,<br>TN, TR, TW, UA, VN,<br>WO); FPRS; EPO;<br>JPO; DERWENT;<br>IBM_TDB) | OR | ON | ON | 2022/12/15<br>09:35 AM |
| L63 | 175 | "5729544" | (US-PGPUB; USPAT;<br>USOCR; FIT (AP, AT,<br>AU, BE, BG, BR, BY,<br>CA, CH, CN, CS, CU,<br>CZ, DD, DE, DK, EA,<br>EE, EP, ES, FI, FR, GB,<br>HR, HU, ID, IE, IL, IS,<br>IT, JP, KR, LT, LU, LV,<br>MA, MC, MD, MY, NL,<br>NO, NZ, OA, PH, PL,<br>PT, RO, RS, RU, SE,<br>SG, SI, SK, SU, TH,<br>TN, TR, TW, UA, VN,<br>WO); FPRS; EPO;<br>JPO; DERWENT;<br>IBM_TDB)                                                                                                                                                                                                                                                                            | OR | ON | ON | 2022/12/15<br>09:35 AM |
| L64 | 146 | "6678524" | (US-PGPUB; USPAT;<br>USOCR; FIT (AP, AT,<br>AU, BE, BG, BR, BY,<br>CA, CH, CN, CS, CU,<br>CZ, DD, DE, DK, EA,<br>EE, EP, ES, FI, FR, GB,<br>HR, HU, ID, IE, IL, IS,<br>IT, JP, KR, LT, LU, LV,<br>MA, MC, MD, MY, NL,<br>NO, NZ, OA, PH, PL,<br>PT, RO, RS, RU, SE,<br>SG, SI, SK, SU, TH,<br>TN, TR, TW, UA, VN,<br>WO); FPRS; EPO;<br>JPO; DERWENT;<br>IBM_TDB)                                                                                                                                                                                                                                                                            | OR | ON | ON | 2022/12/15<br>09:36 AM |

|     |     |               |                                                                                                                                                                                                                                                                                                                                                                                                                   |    |    |    |                        |
|-----|-----|---------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|----|----|------------------------|
| L65 | 64  | "6707472"     | WO); FPRS; EPO;<br>JPO; DERWENT;<br>IBM_TDB)<br>(US-PGPUB; USPAT;<br>USOCR; FIT (AP, AT,<br>AU, BE, BG, BR, BY,<br>CA, CH, CN, CS, CU,<br>CZ, DD, DE, DK, EA,<br>EE, EP, ES, FI, FR, GB,<br>HR, HU, ID, IE, IL, IS,<br>IT, JP, KR, LT, LU, LV,<br>MA, MC, MD, MY, NL,<br>NO, NZ, OA, PH, PL,<br>PT, RO, RS, RU, SE,<br>SG, SI, SK, SU, TH,<br>TN, TR, TW, UA, VN,<br>WO); FPRS; EPO;<br>JPO; DERWENT;<br>IBM_TDB) | OR | ON | ON | 2022/12/15<br>09:49 AM |
| L66 | 110 | "6987985"     | (US-PGPUB; USPAT;<br>USOCR; FIT (AP, AT,<br>AU, BE, BG, BR, BY,<br>CA, CH, CN, CS, CU,<br>CZ, DD, DE, DK, EA,<br>EE, EP, ES, FI, FR, GB,<br>HR, HU, ID, IE, IL, IS,<br>IT, JP, KR, LT, LU, LV,<br>MA, MC, MD, MY, NL,<br>NO, NZ, OA, PH, PL,<br>PT, RO, RS, RU, SE,<br>SG, SI, SK, SU, TH,<br>TN, TR, TW, UA, VN,<br>WO); FPRS; EPO;<br>JPO; DERWENT;<br>IBM_TDB)                                                 | OR | ON | ON | 2022/12/15<br>09:50 AM |
| L67 | 8   | "20020077131" | (US-PGPUB; USPAT;<br>USOCR; FIT (AP, AT,<br>AU, BE, BG, BR, BY,<br>CA, CH, CN, CS, CU,<br>CZ, DD, DE, DK, EA,<br>EE, EP, ES, FI, FR, GB,<br>HR, HU, ID, IE, IL, IS,<br>IT, JP, KR, LT, LU, LV,<br>MA, MC, MD, MY, NL,<br>NO, NZ, OA, PH, PL,<br>PT, RO, RS, RU, SE,<br>SG, SI, SK, SU, TH,<br>TN, TR, TW, UA, VN,<br>WO); FPRS; EPO;<br>JPO; DERWENT;<br>IBM_TDB)                                                 | OR | ON | ON | 2022/12/15<br>09:57 AM |
| L68 | 12  | "20030040300" | (US-PGPUB; USPAT;<br>USOCR; FIT (AP, AT,<br>AU, BE, BG, BR, BY,<br>CA, CH, CN, CS, CU,<br>CZ, DD, DE, DK, EA,<br>EE, EP, ES, FI, FR, GB,                                                                                                                                                                                                                                                                          | OR | ON | ON | 2022/12/15<br>09:59 AM |

|     |    |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |    |    |    |                        |
|-----|----|---------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|----|----|------------------------|
| L69 | 10 | "20060056309" | HR, HU, ID, IE, IL, IS,<br>IT, JP, KR, LT, LU, LV,<br>MA, MC, MD, MY, NL,<br>NO, NZ, OA, PH, PL,<br>PT, RO, RS, RU, SE,<br>SG, SI, SK, SU, TH,<br>TN, TR, TW, UA, VN,<br>WO); FPRS; EPO;<br>JPO; DERWENT;<br>IBM_TDB)<br>(US-PGPUB; USPAT;<br>USOCR; FIT (AP, AT,<br>AU, BE, BG, BR, BY,<br>CA, CH, CN, CS, CU,<br>CZ, DD, DE, DK, EA,<br>EE, EP, ES, FI, FR, GB,<br>HR, HU, ID, IE, IL, IS,<br>IT, JP, KR, LT, LU, LV,<br>MA, MC, MD, MY, NL,<br>NO, NZ, OA, PH, PL,<br>PT, RO, RS, RU, SE,<br>SG, SI, SK, SU, TH,<br>TN, TR, TW, UA, VN,<br>WO); FPRS; EPO;<br>JPO; DERWENT;<br>IBM_TDB) | OR | ON | ON | 2022/12/15<br>10:02 AM |
| L70 | 12 | "20060026237" | (US-PGPUB; USPAT;<br>USOCR; FIT (AP, AT,<br>AU, BE, BG, BR, BY,<br>CA, CH, CN, CS, CU,<br>CZ, DD, DE, DK, EA,<br>EE, EP, ES, FI, FR, GB,<br>HR, HU, ID, IE, IL, IS,<br>IT, JP, KR, LT, LU, LV,<br>MA, MC, MD, MY, NL,<br>NO, NZ, OA, PH, PL,<br>PT, RO, RS, RU, SE,<br>SG, SI, SK, SU, TH,<br>TN, TR, TW, UA, VN,<br>WO); FPRS; EPO;<br>JPO; DERWENT;<br>IBM_TDB)                                                                                                                                                                                                                          | OR | ON | ON | 2022/12/15<br>10:04 AM |
| L71 | 2  | "20060293028" | (US-PGPUB; USPAT;<br>USOCR; FIT (AP, AT,<br>AU, BE, BG, BR, BY,<br>CA, CH, CN, CS, CU,<br>CZ, DD, DE, DK, EA,<br>EE, EP, ES, FI, FR, GB,<br>HR, HU, ID, IE, IL, IS,<br>IT, JP, KR, LT, LU, LV,<br>MA, MC, MD, MY, NL,<br>NO, NZ, OA, PH, PL,<br>PT, RO, RS, RU, SE,<br>SG, SI, SK, SU, TH,<br>TN, TR, TW, UA, VN,<br>WO); FPRS; EPO;<br>JPO; DERWENT;<br>IBM_TDB)                                                                                                                                                                                                                          | OR | ON | ON | 2022/12/15<br>10:05 AM |

|     |    |               |                                                                                                                                                                                                                                                                                                                                                                               |    |    |    |                        |
|-----|----|---------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|----|----|------------------------|
| L72 | 6  | "20070055634" | IBM_TDB)<br>(US-PGPUB; USPAT;<br>USOCR; FIT (AP, AT,<br>AU, BE, BG, BR, BY,<br>CA, CH, CN, CS, CU,<br>CZ, DD, DE, DK, EA,<br>EE, EP, ES, FI, FR, GB,<br>HR, HU, ID, IE, IL, IS,<br>IT, JP, KR, LT, LU, LV,<br>MA, MC, MD, MY, NL,<br>NO, NZ, OA, PH, PL,<br>PT, RO, RS, RU, SE,<br>SG, SI, SK, SU, TH,<br>TN, TR, TW, UA, VN,<br>WO); FPRS; EPO;<br>JPO; DERWENT;<br>IBM_TDB) | OR | ON | ON | 2022/12/15<br>10:10 AM |
| L73 | 12 | "20080004051" | (US-PGPUB; USPAT;<br>USOCR; FIT (AP, AT,<br>AU, BE, BG, BR, BY,<br>CA, CH, CN, CS, CU,<br>CZ, DD, DE, DK, EA,<br>EE, EP, ES, FI, FR, GB,<br>HR, HU, ID, IE, IL, IS,<br>IT, JP, KR, LT, LU, LV,<br>MA, MC, MD, MY, NL,<br>NO, NZ, OA, PH, PL,<br>PT, RO, RS, RU, SE,<br>SG, SI, SK, SU, TH,<br>TN, TR, TW, UA, VN,<br>WO); FPRS; EPO;<br>JPO; DERWENT;<br>IBM_TDB)             | OR | ON | ON | 2022/12/15<br>10:12 AM |
| L74 | 3  | "20090305729" | (US-PGPUB; USPAT;<br>USOCR; FIT (AP, AT,<br>AU, BE, BG, BR, BY,<br>CA, CH, CN, CS, CU,<br>CZ, DD, DE, DK, EA,<br>EE, EP, ES, FI, FR, GB,<br>HR, HU, ID, IE, IL, IS,<br>IT, JP, KR, LT, LU, LV,<br>MA, MC, MD, MY, NL,<br>NO, NZ, OA, PH, PL,<br>PT, RO, RS, RU, SE,<br>SG, SI, SK, SU, TH,<br>TN, TR, TW, UA, VN,<br>WO); FPRS; EPO;<br>JPO; DERWENT;<br>IBM_TDB)             | OR | ON | ON | 2022/12/15<br>10:16 AM |
| L75 | 12 | "20100131858" | (US-PGPUB; USPAT;<br>USOCR; FIT (AP, AT,<br>AU, BE, BG, BR, BY,<br>CA, CH, CN, CS, CU,<br>CZ, DD, DE, DK, EA,<br>EE, EP, ES, FI, FR, GB,<br>HR, HU, ID, IE, IL, IS,<br>IT, JP, KR, LT, LU, LV,                                                                                                                                                                                | OR | ON | ON | 2022/12/15<br>10:19 AM |

|     |    |                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |    |    |    |                        |
|-----|----|---------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|----|----|------------------------|
| L76 | 15 | "20120042021"             | MA, MC, MD, MY, NL,<br>NO, NZ, OA, PH, PL,<br>PT, RO, RS, RU, SE,<br>SG, SI, SK, SU, TH,<br>TN, TR, TW, UA, VN,<br>WO); FPRS; EPO;<br>JPO; DERWENT;<br>IBM_TDB)<br>(US-PGPUB; USPAT;<br>USOCR; FIT (AP, AT,<br>AU, BE, BG, BR, BY,<br>CA, CH, CN, CS, CU,<br>CZ, DD, DE, DK, EA,<br>EE, EP, ES, FI, FR, GB,<br>HR, HU, ID, IE, IL, IS,<br>IT, JP, KR, LT, LU, LV,<br>MA, MC, MD, MY, NL,<br>NO, NZ, OA, PH, PL,<br>PT, RO, RS, RU, SE,<br>SG, SI, SK, SU, TH,<br>TN, TR, TW, UA, VN,<br>WO); FPRS; EPO;<br>JPO; DERWENT;<br>IBM_TDB) | OR | ON | ON | 2022/12/15<br>10:20 AM |
| L77 | 4  | "17872378"                | (US-PGPUB; USPAT;<br>USOCR; FIT (AP, AT,<br>AU, BE, BG, BR, BY,<br>CA, CH, CN, CS, CU,<br>CZ, DD, DE, DK, EA,<br>EE, EP, ES, FI, FR, GB,<br>HR, HU, ID, IE, IL, IS,<br>IT, JP, KR, LT, LU, LV,<br>MA, MC, MD, MY, NL,<br>NO, NZ, OA, PH, PL,<br>PT, RO, RS, RU, SE,<br>SG, SI, SK, SU, TH,<br>TN, TR, TW, UA, VN,<br>WO); FPRS; EPO;<br>JPO; DERWENT;<br>IBM_TDB)                                                                                                                                                                    | OR | ON | ON | 2022/12/15<br>11:36 AM |
| L78 | 57 | ("MERRETT<br>GRAHAM").in. | (US-PGPUB; USPAT;<br>USOCR; FIT (AP, AT,<br>AU, BE, BG, BR, BY,<br>CA, CH, CN, CS, CU,<br>CZ, DD, DE, DK, EA,<br>EE, EP, ES, FI, FR, GB,<br>HR, HU, ID, IE, IL, IS,<br>IT, JP, KR, LT, LU, LV,<br>MA, MC, MD, MY, NL,<br>NO, NZ, OA, PH, PL,<br>PT, RO, RS, RU, SE,<br>SG, SI, SK, SU, TH,<br>TN, TR, TW, UA, VN,<br>WO); FPRS; EPO;<br>JPO; DERWENT;<br>IBM_TDB)                                                                                                                                                                    | OR | ON | ON | 2022/12/15<br>11:42 AM |
| L79 | 25 | ((inactive OR active)     | (US-PGPUB; USPAT;<br>USOCR; FIT (AP, AT,<br>AU, BE, BG, BR, BY,<br>CA, CH, CN, CS, CU,<br>CZ, DD, DE, DK, EA,<br>EE, EP, ES, FI, FR, GB,<br>HR, HU, ID, IE, IL, IS,<br>IT, JP, KR, LT, LU, LV,<br>MA, MC, MD, MY, NL,<br>NO, NZ, OA, PH, PL,<br>PT, RO, RS, RU, SE,<br>SG, SI, SK, SU, TH,<br>TN, TR, TW, UA, VN,<br>WO); FPRS; EPO;<br>JPO; DERWENT;<br>IBM_TDB)                                                                                                                                                                    | OR | ON | ON | 2022/12/16             |

|     |    |                                                                                                                                 |                                                                                                                                                                                                                                                                                                                      |    |    |    |                     |
|-----|----|---------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|----|----|---------------------|
|     |    | near4 (status OR condition) near4 (PSMS))                                                                                       | USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)                   |    |    |    | 07:58 AM            |
| L80 | 38 | ((inactive OR active) near4 (status OR condition) near4 ("PSMS" OR "packet switch"))                                            | (US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB) | OR | ON | ON | 2022/12/16 08:04 AM |
| L81 | 11 | 80 AND ((H04W4/14 OR H04L51/56 OR H04L51/58 OR H04L69/24 OR H04W4/18 OR H04W8/183 OR H04L51/04 OR H04W84/12 OR H04W88/06).cpc.) | (US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB) | OR | ON | ON | 2022/12/16 08:06 AM |
| L82 | 25 | ((inactive OR active) near4 (status OR condition) near4 ("PSMS" OR "packet switch message service"))                            | (US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL,                                                                                                    | OR | ON | ON | 2022/12/16 08:09 AM |

|     |      |                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |    |    |    |                        |
|-----|------|---------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|----|----|------------------------|
| L83 | 300  | ((server) near4<br>(outside) near4<br>("cellular network"))                                                                                             | PT, RO, RS, RU, SE,<br>SG, SI, SK, SU, TH,<br>TN, TR, TW, UA, VN,<br>WO); FPRS; EPO;<br>JPO; DERWENT;<br>IBM_TDB)<br>(US-PGPUB; USPAT;<br>USOCR; FIT (AP, AT,<br>AU, BE, BG, BR, BY,<br>CA, CH, CN, CS, CU,<br>CZ, DD, DE, DK, EA,<br>EE, EP, ES, FI, FR, GB,<br>HR, HU, ID, IE, IL, IS,<br>IT, JP, KR, LT, LU, LV,<br>MA, MC, MD, MY, NL,<br>NO, NZ, OA, PH, PL,<br>PT, RO, RS, RU, SE,<br>SG, SI, SK, SU, TH,<br>TN, TR, TW, UA, VN,<br>WO); FPRS; EPO;<br>JPO; DERWENT;<br>IBM_TDB) | OR | ON | ON | 2022/12/16<br>10:17 AM |
| L84 | 27   | 83 AND ((H04W4/14<br>OR H04L51/56 OR<br>H04L51/58 OR<br>H04L69/24 OR<br>H04W4/18 OR<br>H04W8/183 OR<br>H04L51/04 OR<br>H04W84/12 OR<br>H04W88/06).cpc.) | (US-PGPUB; USPAT;<br>USOCR; FIT (AP, AT,<br>AU, BE, BG, BR, BY,<br>CA, CH, CN, CS, CU,<br>CZ, DD, DE, DK, EA,<br>EE, EP, ES, FI, FR, GB,<br>HR, HU, ID, IE, IL, IS,<br>IT, JP, KR, LT, LU, LV,<br>MA, MC, MD, MY, NL,<br>NO, NZ, OA, PH, PL,<br>PT, RO, RS, RU, SE,<br>SG, SI, SK, SU, TH,<br>TN, TR, TW, UA, VN,<br>WO); FPRS; EPO;<br>JPO; DERWENT;<br>IBM_TDB)                                                                                                                      | OR | ON | ON | 2022/12/16<br>10:18 AM |
| L85 | 8    | "17959687"                                                                                                                                              | (US-PGPUB; USPAT;<br>USOCR; FIT (AP, AT,<br>AU, BE, BG, BR, BY,<br>CA, CH, CN, CS, CU,<br>CZ, DD, DE, DK, EA,<br>EE, EP, ES, FI, FR, GB,<br>HR, HU, ID, IE, IL, IS,<br>IT, JP, KR, LT, LU, LV,<br>MA, MC, MD, MY, NL,<br>NO, NZ, OA, PH, PL,<br>PT, RO, RS, RU, SE,<br>SG, SI, SK, SU, TH,<br>TN, TR, TW, UA, VN,<br>WO); FPRS; EPO;<br>JPO; DERWENT;<br>IBM_TDB)                                                                                                                      | OR | ON | ON | 2022/12/16<br>11:32 AM |
| L86 | 2088 | ((server) near4 (rece\$4<br>OR obtain\$3) near4<br>(mobile OR smartphone                                                                                | (US-PGPUB; USPAT;<br>USOCR; FIT (AP, AT,<br>AU, BE, BG, BR, BY,                                                                                                                                                                                                                                                                                                                                                                                                                        | OR | ON | ON | 2022/12/17<br>03:10 PM |

|     |     |                                                                                                                                         |                                                                                                                                                                                                                                                                                                                      |    |    |    |                     |
|-----|-----|-----------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|----|----|---------------------|
|     |     | OR "PDA" OR "user equipment" OR "subscriber station") near4 (capabilit\$4 OR prospects OR abilit\$4 OR potential OR capacity OR value)) | CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)                                                           |    |    |    |                     |
| L87 | 164 | 86 AND ((H04W4/14 OR H04L51/56 OR H04L51/58 OR H04L69/24 OR H04W4/18 OR H04W8/183 OR H04L51/04 OR H04W84/12 OR H04W88/06).cpc.)         | (US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB) | OR | ON | ON | 2022/12/17 03:10 PM |
| L88 | 0   | 30 AND 87                                                                                                                               | (US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB) | OR | ON | ON | 2022/12/17 03:11 PM |
| L89 | 1   | 49 AND 87                                                                                                                               | (US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH,                                                            | OR | ON | ON | 2022/12/17 03:13 PM |

|     |       |                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                    |    |    |    |                     |
|-----|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|----|----|---------------------|
| L90 | 0     | ((send\$3 OR transmit\$4 OR forward\$3) near4 ("packet switching message" OR "psms") near4 (subscri\$5) near4 (address OR email) near4 (mobile OR "UE" OR "user equipment" OR "subscriber station" OR smartphone OR "PDA")) | TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)<br>(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB) | OR | ON | ON | 2023/03/24 08:41 AM |
| L91 | 9     | ((send\$3 OR transmit\$4 OR forward\$3) near4 ("packet switching message" OR "psms") near4 (subscri\$5) near4 (address OR email))                                                                                           | (US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)                                                               | OR | ON | ON | 2023/03/24 08:42 AM |
| L92 | 37009 | ((mobile OR "UE" OR "user equipment" OR "subscriber station" OR smartphone OR "PDA") near4(send\$3 OR transmit\$4 OR forward\$3) near4 (sms OR "short message service"))                                                    | (US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)                                                               | OR | ON | ON | 2023/03/24 08:45 AM |
| L93 | 862   | ((mobile OR "UE" OR "user equipment" OR "subscriber station" OR smartphone OR "PDA") near4(send\$3 OR                                                                                                                       | (US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA,                                                                                                                                                                                                                                                                                  | OR | ON | ON | 2023/03/24 08:47 AM |

|     |      |                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                      |    |    |    |                     |
|-----|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|----|----|---------------------|
| L94 | 3097 | transmit\$4 OR forward\$3) near4 (sms OR "short message service") near8 (cellular OR PSMS OR "packet switched"))                                                                                                     | EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)                                                                                                   | OR | ON | ON | 2023/03/24 08:48 AM |
| L95 | 0    | ((server) near4 (rece\$4 OR obtain\$3) near4 (mobile OR smartphone OR "PDA" OR "user equipment" OR "subscriber station") near4 (capabilit\$4 OR prospects OR abilit\$4 OR potential OR capacity OR value OR status)) | (US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB) | OR | ON | ON | 2023/03/24 08:48 AM |
| L96 | 14   | 93 AND 94                                                                                                                                                                                                            | (US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB) | OR | ON | ON | 2023/03/24 08:51 AM |
|     |      | ((server) near4 (PSMS) near4 (capabilit\$4 OR prospects OR abilit\$4 OR potential OR capacity OR value OR status) near7 (data OR information))                                                                       | (US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO;                        |    |    |    |                     |

|      |        |                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                |    |    |    |                        |
|------|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|----|----|------------------------|
| L97  | 291971 | ((server) near4<br>(capabilit\$4 OR<br>prospects OR abilit\$4<br>OR potential OR<br>capacity OR value OR<br>status) near7 (data OR<br>information))     | JPO; DERWENT;<br>IBM_TDB)<br>(US-PGPUB; USPAT;<br>USOCR; FIT (AP, AT,<br>AU, BE, BG, BR, BY,<br>CA, CH, CN, CS, CU,<br>CZ, DD, DE, DK, EA,<br>EE, EP, ES, FI, FR, GB,<br>HR, HU, ID, IE, IL, IS,<br>IT, JP, KR, LT, LU, LV,<br>MA, MC, MD, MY, NL,<br>NO, NZ, OA, PH, PL,<br>PT, RO, RS, RU, SE,<br>SG, SI, SK, SU, TH,<br>TN, TR, TW, UA, VN,<br>WO); FPRS; EPO;<br>JPO; DERWENT;<br>IBM_TDB) | OR | ON | ON | 2023/03/24<br>08:51 AM |
| L98  | 38     | 93 AND 97                                                                                                                                               | (US-PGPUB; USPAT;<br>USOCR; FIT (AP, AT,<br>AU, BE, BG, BR, BY,<br>CA, CH, CN, CS, CU,<br>CZ, DD, DE, DK, EA,<br>EE, EP, ES, FI, FR, GB,<br>HR, HU, ID, IE, IL, IS,<br>IT, JP, KR, LT, LU, LV,<br>MA, MC, MD, MY, NL,<br>NO, NZ, OA, PH, PL,<br>PT, RO, RS, RU, SE,<br>SG, SI, SK, SU, TH,<br>TN, TR, TW, UA, VN,<br>WO); FPRS; EPO;<br>JPO; DERWENT;<br>IBM_TDB)                              | OR | ON | ON | 2023/03/24<br>08:51 AM |
| L99  | 16     | 98 AND ((H04W4/14<br>OR H04L51/56 OR<br>H04L51/58 OR<br>H04L69/24 OR<br>H04W4/18 OR<br>H04W8/183 OR<br>H04L51/04 OR<br>H04W84/12 OR<br>H04W88/06).cpc.) | (US-PGPUB; USPAT;<br>USOCR; FIT (AP, AT,<br>AU, BE, BG, BR, BY,<br>CA, CH, CN, CS, CU,<br>CZ, DD, DE, DK, EA,<br>EE, EP, ES, FI, FR, GB,<br>HR, HU, ID, IE, IL, IS,<br>IT, JP, KR, LT, LU, LV,<br>MA, MC, MD, MY, NL,<br>NO, NZ, OA, PH, PL,<br>PT, RO, RS, RU, SE,<br>SG, SI, SK, SU, TH,<br>TN, TR, TW, UA, VN,<br>WO); FPRS; EPO;<br>JPO; DERWENT;<br>IBM_TDB)                              | OR | ON | ON | 2023/03/24<br>08:52 AM |
| L100 | 4296   | ((mobile OR "UE" OR<br>"user equipment" OR<br>"subscriber station" OR<br>smartphone OR "PDA")<br>near4(recei\$4 OR<br>obtain\$3) near4 (target          | (US-PGPUB; USPAT;<br>USOCR; FIT (AP, AT,<br>AU, BE, BG, BR, BY,<br>CA, CH, CN, CS, CU,<br>CZ, DD, DE, DK, EA,<br>EE, EP, ES, FI, FR, GB,                                                                                                                                                                                                                                                       | OR | ON | ON | 2023/03/24<br>09:02 AM |

|      |     |                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                   |    |    |    |                        |
|------|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|----|----|------------------------|
|      |     | OR destination) near3<br>(address))                                                                                                                      | HR, HU, ID, IE, IL, IS,<br>IT, JP, KR, LT, LU, LV,<br>MA, MC, MD, MY, NL,<br>NO, NZ, OA, PH, PL,<br>PT, RO, RS, RU, SE,<br>SG, SI, SK, SU, TH,<br>TN, TR, TW, UA, VN,<br>WO); FPRS; EPO;<br>JPO; DERWENT;<br>IBM_TDB)                                                                                                                                             |    |    |    |                        |
| L101 | 128 | 97 AND 100                                                                                                                                               | (US-PGPUB; USPAT;<br>USOCR; FIT (AP, AT,<br>AU, BE, BG, BR, BY,<br>CA, CH, CN, CS, CU,<br>CZ, DD, DE, DK, EA,<br>EE, EP, ES, FI, FR, GB,<br>HR, HU, ID, IE, IL, IS,<br>IT, JP, KR, LT, LU, LV,<br>MA, MC, MD, MY, NL,<br>NO, NZ, OA, PH, PL,<br>PT, RO, RS, RU, SE,<br>SG, SI, SK, SU, TH,<br>TN, TR, TW, UA, VN,<br>WO); FPRS; EPO;<br>JPO; DERWENT;<br>IBM_TDB) | OR | ON | ON | 2023/03/24<br>09:03 AM |
| L102 | 15  | 101 AND ((H04W4/14<br>OR H04L51/56 OR<br>H04L51/58 OR<br>H04L69/24 OR<br>H04W4/18 OR<br>H04W8/183 OR<br>H04L51/04 OR<br>H04W84/12 OR<br>H04W88/06).cpc.) | (US-PGPUB; USPAT;<br>USOCR; FIT (AP, AT,<br>AU, BE, BG, BR, BY,<br>CA, CH, CN, CS, CU,<br>CZ, DD, DE, DK, EA,<br>EE, EP, ES, FI, FR, GB,<br>HR, HU, ID, IE, IL, IS,<br>IT, JP, KR, LT, LU, LV,<br>MA, MC, MD, MY, NL,<br>NO, NZ, OA, PH, PL,<br>PT, RO, RS, RU, SE,<br>SG, SI, SK, SU, TH,<br>TN, TR, TW, UA, VN,<br>WO); FPRS; EPO;<br>JPO; DERWENT;<br>IBM_TDB) | OR | ON | ON | 2023/03/24<br>09:03 AM |
| L103 | 198 | ((send\$3 OR transmit\$4<br>OR forward\$3) near4(<br>message OR text)<br>near6 ("packet<br>switching message" OR<br>"psms") AND (wlan))                  | (US-PGPUB; USPAT;<br>USOCR; FIT (AP, AT,<br>AU, BE, BG, BR, BY,<br>CA, CH, CN, CS, CU,<br>CZ, DD, DE, DK, EA,<br>EE, EP, ES, FI, FR, GB,<br>HR, HU, ID, IE, IL, IS,<br>IT, JP, KR, LT, LU, LV,<br>MA, MC, MD, MY, NL,<br>NO, NZ, OA, PH, PL,<br>PT, RO, RS, RU, SE,<br>SG, SI, SK, SU, TH,<br>TN, TR, TW, UA, VN,<br>WO); FPRS; EPO;<br>JPO; DERWENT;             | OR | ON | ON | 2023/03/24<br>09:15 AM |

|      |       |                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                               |    |    |    |                        |
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| L104 | 29    | 97 AND 103                                                                                                                                                                                                                                                               | IBM_TDB)<br>(US-PGPUB; USPAT;<br>USOCR; FIT (AP, AT,<br>AU, BE, BG, BR, BY,<br>CA, CH, CN, CS, CU,<br>CZ, DD, DE, DK, EA,<br>EE, EP, ES, FI, FR, GB,<br>HR, HU, ID, IE, IL, IS,<br>IT, JP, KR, LT, LU, LV,<br>MA, MC, MD, MY, NL,<br>NO, NZ, OA, PH, PL,<br>PT, RO, RS, RU, SE,<br>SG, SI, SK, SU, TH,<br>TN, TR, TW, UA, VN,<br>WO); FPRS; EPO;<br>JPO; DERWENT;<br>IBM_TDB) | OR | ON | ON | 2023/03/24<br>09:16 AM |
| L106 | 8     | 104 AND ((H04W4/14<br>OR H04L51/56 OR<br>H04L51/58 OR<br>H04L69/24 OR<br>H04W4/18 OR<br>H04W8/183 OR<br>H04L51/04 OR<br>H04W84/12 OR<br>H04W88/06).cpc.)                                                                                                                 | (US-PGPUB; USPAT;<br>USOCR; FIT (AP, AT,<br>AU, BE, BG, BR, BY,<br>CA, CH, CN, CS, CU,<br>CZ, DD, DE, DK, EA,<br>EE, EP, ES, FI, FR, GB,<br>HR, HU, ID, IE, IL, IS,<br>IT, JP, KR, LT, LU, LV,<br>MA, MC, MD, MY, NL,<br>NO, NZ, OA, PH, PL,<br>PT, RO, RS, RU, SE,<br>SG, SI, SK, SU, TH,<br>TN, TR, TW, UA, VN,<br>WO); FPRS; EPO;<br>JPO; DERWENT;<br>IBM_TDB)             | OR | ON | ON | 2023/03/24<br>09:16 AM |
| L107 | 0     | ((send\$3 OR transmit\$4<br>OR forward\$3) near4(<br>message OR text)<br>near6 ("packet<br>switching message" OR<br>"psms") NEAR7 (wlan)<br>NEAR7 (except ) near9<br>(maximum OR large OR<br>alot OR many) near5<br>(undeliver\$2 OR "not<br>delivered" OR<br>queue\$1)) | (US-PGPUB; USPAT)                                                                                                                                                                                                                                                                                                                                                             | OR | ON | ON | 2023/03/24<br>05:21 PM |
| L108 | 1     | ((send\$3 OR transmit\$4<br>OR forward\$3) near4(<br>message OR text)<br>near6 ("packet<br>switching message" OR<br>"psms") NEAR7 (wlan))                                                                                                                                | (US-PGPUB; USPAT)                                                                                                                                                                                                                                                                                                                                                             | OR | ON | ON | 2023/03/24<br>05:22 PM |
| L109 | 26423 | ( (maximum OR large<br>OR alot OR many)<br>near5 (undeliver\$2 OR<br>"not delivered" OR<br>queue\$1))                                                                                                                                                                    | (US-PGPUB; USPAT)                                                                                                                                                                                                                                                                                                                                                             | OR | ON | ON | 2023/03/24<br>05:22 PM |

|      |      |                                                                                                                       |                   |    |    |    |                     |
|------|------|-----------------------------------------------------------------------------------------------------------------------|-------------------|----|----|----|---------------------|
| L110 | 3147 | ((send\$3 OR transmit\$4 OR forward\$3) near4( message OR text) near6 ("packet switching message" OR "psms" OR wlan)) | (US-PGPUB; USPAT) | OR | ON | ON | 2023/03/24 05:23 PM |
| L111 | 37   | 109 AND 110                                                                                                           | (US-PGPUB; USPAT) | OR | ON | ON | 2023/03/24 05:23 PM |

## PE2E SEARCH - Search History (Interference)

| Ref # | Hits  | Search Query                                                                                                                                                                                                                     | DBs               | Default Operator | Plurals | British Equivalents | Time Stamp          |
|-------|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|------------------|---------|---------------------|---------------------|
| N1    | 28908 | ((recei\$4 OR obtain\$3) near4 (packet switched) near3 (message OR text))                                                                                                                                                        | (US-PGPUB; USPAT) | OR               | ON      | ON                  | 2022/10/28 11:29 AM |
| N2    | 0     | ((message OR text) near5(format\$4 OR arrang\$4) near4 ("not" OR no OR never) near6 (EMS OR MMS OR SMS))                                                                                                                         | (US-PGPUB; USPAT) | OR               | ON      | ON                  | 2022/10/28 11:45 AM |
| N3    | 10093 | ((message OR text) near5(format\$4 OR arrang\$4) near6 (EMS OR MMS OR SMS))                                                                                                                                                      | (US-PGPUB; USPAT) | OR               | ON      | ON                  | 2022/10/28 11:46 AM |
| N4    | 2     | ((message OR text) near5(format\$4 OR arrang\$4) near4 ("not" OR no OR never OR unawar\$2 OR unknown) near6 (EMS OR MMS OR SMS))                                                                                                 | (US-PGPUB; USPAT) | OR               | ON      | ON                  | 2022/10/28 11:46 AM |
| N5    | 18    | ((transmit\$4 OR send\$3 OR forward\$3) near4 (message OR text) near4 (WLAN) near4 (provider))                                                                                                                                   | (US-PGPUB; USPAT) | OR               | ON      | ON                  | 2022/10/28 12:17 PM |
| N6    | 0     | ((send\$3 OR transmit\$4 OR forward\$3) near4 ("packet switching message" OR "psms") near4 (subscri\$5) near4 (address OR email) near4 (mobile OR "UE" OR "user equipment" OR "subscriber station" OR smartphone OR "PDA")).clm. | (US-PGPUB; USPAT) | OR               | ON      | ON                  | 2022/10/28 01:22 PM |
| N7    | 0     | ( ("packet switching message" OR "psms") near4 (subscri\$5) near4 (address OR email) near4 (mobile OR "UE"                                                                                                                       | (US-PGPUB; USPAT) | OR               | ON      | ON                  | 2022/10/28 01:23 PM |

|     |       |                                                                                                                                                                                                                                                                                                   |                   |    |    |    |                        |
|-----|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|----|----|----|------------------------|
| N8  | 0     | OR "user equipment"<br>OR "subscriber station"<br>OR smartphone OR<br>"PDA")).clm.<br><br>( ("packet switching<br>message" OR "psms")<br>near4 (subscri\$5) near4<br>(address OR email)<br>near4 (mobile OR "UE"<br>OR "user equipment"<br>OR "subscriber station"<br>OR smartphone OR<br>"PDA")) | (US-PGPUB; USPAT) | OR | ON | ON | 2022/10/28<br>01:23 PM |
| N9  | 17    | ((recei\$4 OR obtain\$3)<br>near4 ("packet<br>switched" OR "packet<br>switching" OR "PSMS")<br>near4 (address OR<br>email) near7 (mobile<br>OR "UE" OR "user<br>equipment" OR "SS"<br>OR "subscriber station"<br>OR "PDA" OR<br>smartphone))                                                      | (US-PGPUB; USPAT) | OR | ON | ON | 2022/10/28<br>01:33 PM |
| N10 | 127   | ((server) near4 (rece\$4<br>OR obtain\$3) near4<br>(mobile OR smartphone<br>OR "PDA" OR "user<br>equipment" OR<br>"subscriber station")<br>near4 (capabilit\$4 OR<br>prospects OR abilit\$4<br>OR potential OR<br>capacity OR value OR<br>status)).clm.                                           | (US-PGPUB; USPAT) | OR | ON | ON | 2023/03/24<br>09:46 AM |
| N11 | 35    | ((mobile OR "UE" OR<br>"user equipment" OR<br>"subscriber station" OR<br>smartphone OR "PDA")<br>near4(send\$3 OR<br>transmit\$4 OR<br>forward\$3) near4 (sms<br>OR "short message<br>service") near8 (cellular<br>OR PSMS OR "packet<br>switched")).clm.                                         | (US-PGPUB; USPAT) | OR | ON | ON | 2023/03/24<br>09:47 AM |
| N12 | 0     | 10 AND 11                                                                                                                                                                                                                                                                                         | (US-PGPUB; USPAT) | OR | ON | ON | 2023/03/24<br>09:48 AM |
| N13 | 10791 | ((server) near4<br>(capabilit\$4 OR<br>prospects OR abilit\$4<br>OR potential OR<br>capacity OR value OR<br>status) near7 (data OR<br>information)).clm.                                                                                                                                          | (US-PGPUB; USPAT) | OR | ON | ON | 2023/03/24<br>09:49 AM |
| N14 | 159   | ((mobile OR "UE" OR                                                                                                                                                                                                                                                                               | (US-PGPUB; USPAT) | OR | ON | ON | 2023/03/24             |

|     |      |                                                                                                                                                                     |                   |    |    |    |                        |
|-----|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|----|----|----|------------------------|
|     |      | "user equipment" OR<br>"subscriber station" OR<br>smartphone OR "PDA")<br>near4(recei\$4 OR<br>obtain\$3) near4 (target<br>OR destination) near3<br>(address)).clm. |                   |    |    |    | 09:50 AM               |
| N15 | 0    | 13 AND 14                                                                                                                                                           | (US-PGPUB; USPAT) | OR | ON | ON | 2023/03/24<br>09:50 AM |
| N16 | 21   | 14 AND ((H04W4/14<br>OR H04L51/56 OR<br>H04L51/58 OR<br>H04L69/24 OR<br>H04W4/18 OR<br>H04W8/183 OR<br>H04L51/04 OR<br>H04W84/12 OR<br>H04W88/06).cpc.)             | (US-PGPUB; USPAT) | OR | ON | ON | 2023/03/24<br>09:52 AM |
| N17 | 16   | 10 AND ((H04W4/14<br>OR H04L51/56 OR<br>H04L51/58 OR<br>H04L69/24 OR<br>H04W4/18 OR<br>H04W8/183 OR<br>H04L51/04 OR<br>H04W84/12 OR<br>H04W88/06).cpc.)             | (US-PGPUB; USPAT) | OR | ON | ON | 2023/03/24<br>09:55 AM |
| N18 | 3    | ((send\$3 OR transmit\$4<br>OR forward\$3) near4(<br>message OR text)<br>near6 ("packet<br>switching message" OR<br>"psms") AND<br>(wlan)).clm.                     | (US-PGPUB; USPAT) | OR | ON | ON | 2023/03/24<br>09:56 AM |
| N19 | 35   | ("MERRETT<br>GRAHAM").in.                                                                                                                                           | (US-PGPUB; USPAT) | OR | ON | ON | 2023/03/24<br>09:58 AM |
| N20 | 2    | "20090203403"                                                                                                                                                       | (US-PGPUB; USPAT) | OR | ON | ON | 2023/03/24<br>05:07 PM |
| N21 | 548  | ((send\$3 OR transmit\$4<br>OR forward\$3) near4(<br>message OR text)<br>near6 ("packet<br>switching message" OR<br>"psms" OR wlan)).clm.                           | (US-PGPUB; USPAT) | OR | ON | ON | 2023/03/24<br>05:26 PM |
| N22 | 2034 | ( (maximum OR large<br>OR alot OR many)<br>near5 (undeliver\$2 OR<br>"not delivered" OR<br>queue\$1)).clm.                                                          | (US-PGPUB; USPAT) | OR | ON | ON | 2023/03/24<br>05:27 PM |
| N23 | 0    | 21 AND 22                                                                                                                                                           | (US-PGPUB; USPAT) | OR | ON | ON | 2023/03/24<br>05:27 PM |

|                                                                                                     |                        |                     |            |  |
|-----------------------------------------------------------------------------------------------------|------------------------|---------------------|------------|--|
| <b>INFORMATION DISCLOSURE<br/>STATEMENT BY APPLICANT</b><br>( Not for submission under 37 CFR 1.99) | Application Number     |                     | 17959697   |  |
|                                                                                                     | Filing Date            |                     | 2022-10-04 |  |
|                                                                                                     | First Named Inventor   | Merrett             |            |  |
|                                                                                                     | Art Unit               | 2647                |            |  |
|                                                                                                     | Examiner Name          | Joseph T. Dean, Jr. |            |  |
|                                                                                                     | Attorney Docket Number | RMT-PT001.19        |            |  |

### U.S. PATENTS

| Examiner Initial* | Cite No | Patent Number | Kind Code <sup>1</sup> | Issue Date | Name of Patentee or Applicant of cited Document | Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear |
|-------------------|---------|---------------|------------------------|------------|-------------------------------------------------|--------------------------------------------------------------------------|
|                   | 1       |               |                        |            |                                                 |                                                                          |

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| Examiner Initial* | Cite No | Publication Number | Kind Code <sup>1</sup> | Publication Date | Name of Patentee or Applicant of cited Document | Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear |
|-------------------|---------|--------------------|------------------------|------------------|-------------------------------------------------|--------------------------------------------------------------------------|
|                   | 1       | 20070299930        | A1                     | 2007-12-27       | Wendelrup et al.                                |                                                                          |

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### FOREIGN PATENT DOCUMENTS

| Examiner Initial* | Cite No | Foreign Document Number <sup>3</sup> | Country Code <sup>2</sup> | Kind Code <sup>4</sup> | Publication Date | Name of Patentee or Applicant of cited Document | Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear | T <sup>5</sup>           |
|-------------------|---------|--------------------------------------|---------------------------|------------------------|------------------|-------------------------------------------------|--------------------------------------------------------------------------|--------------------------|
|                   | 1       |                                      |                           |                        |                  |                                                 |                                                                          | <input type="checkbox"/> |

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### NON-PATENT LITERATURE DOCUMENTS

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

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

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| Attorney Docket Number | RMT-PT001.19        |            |

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|--|---|--|--------------------------|
|  | 1 |  | <input type="checkbox"/> |
|--|---|--|--------------------------|

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**EXAMINER SIGNATURE**

|                    |                     |                 |            |
|--------------------|---------------------|-----------------|------------|
| Examiner Signature | /JOSEPH E DEAN, JR/ | Date Considered | 03/24/2023 |
|--------------------|---------------------|-----------------|------------|

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

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

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

|                        |                     |
|------------------------|---------------------|
| Application Number     | 17959697            |
| Filing Date            | 2022-10-04          |
| First Named Inventor   | Merrett             |
| Art Unit               | 2647                |
| Examiner Name          | Joseph T. Dean, Jr. |
| Attorney Docket Number | RMT-PT001.19        |

**CERTIFICATION STATEMENT**

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

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

**OR**

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

- ☐ See attached certification statement.
- ☐ The fee set forth in 37 CFR 1.17 (p) has been submitted herewith.
- ☐ A certification statement is not submitted herewith.

**SIGNATURE**

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

|            |                       |                     |            |
|------------|-----------------------|---------------------|------------|
| Signature  | /Brian P. Gordaychik/ | Date (YYYY-MM-DD)   | 2023-02-09 |
| Name/Print | Brian P. Gordaychik   | Registration Number | 62,179     |

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

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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)).
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