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UNITED STATES DEPARTMENT OF COMMERCE
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P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	ISSUE DATE	PATENT NO.	ATTORNEY DOCKET NO.	CONFIRMATION NO.
17/114,645	05/18/2021	11012827	RMT-PT001.11	8587

3624 7590 04/28/2021

VOLPE KOENIG
30 SOUTH 17TH STREET, 18TH FLOOR
PHILADELPHIA, PA 19103

ISSUE NOTIFICATION

The projected patent number and issue date are specified above.

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

The Patent Term Adjustment is 0 day(s). Any patent to issue from the above-identified application will include an indication of the adjustment on the front page.

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (<http://pair.uspto.gov>).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Application Assistance Unit (AAU) of the Office of Data Management (ODM) at (571)-272-4200.

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

REMBRANDT MESSAGING TECHNOLOGIES II, LP., West Conshohocken, PA;
Graham Merrett, Queensland, AUSTRALIA;

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

PART B - FEE(S) TRANSMITTAL

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

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

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

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

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

3624 7590 03/31/2021
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.

Brian P. Gordaychik	(Typed or printed name)
/Brian P. Gordaychik/	(Signature)
April 19, 2021	(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
17/114,645	12/08/2020	Graham Merrett	RMT-PT001.11	8587

TITLE OF INVENTION: RANDOM NUMBER DERIVED MESSAGE TRANSMISSION TO A THIRD PARTY PROVIDER

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	06/30/2021

EXAMINER	ART UNIT	CLASS-SUBCLASS
CHERY, DADY	2461	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/SB/122) attached.
- ☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-09 or more recent) attached. **Use of a Customer Number is required.**

2. For printing on the patent front page, list

- (1) The names of up to 3 registered patent attorneys or agents OR, alternatively,
- (2) The name of a single firm (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. Volpe Koenig
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)

Rembrandt Messaging Technologies II, LP.

West Conshohocken, PA

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

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

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

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

☒ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment to Deposit Account No. 22-0493

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 /Brian P. Gordaychik/

Date April 19, 2021

Typed or printed name Brian P. Gordaychik

Registration No. 62,179

Electronic Patent Application Fee Transmittal				
Application Number:		17114645		
Filing Date:		08-Dec-2020		
Title of Invention:		RANDOM NUMBER DERIVED MESSAGE TRANSMISSION TO A THIRD PARTY PROVIDER		
First Named Inventor/Applicant Name:		Graham Merrett		
Filer:		Brian Paul Gordaychik/Shaylynn McNally		
Attorney Docket Number:		RMT-PT001.11		
Filed as Large Entity				
Filing Fees for Utility under 35 USC 111(a)				
Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
UTILITY APPL ISSUE FEE	1501	1	1200	1200

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Extension-of-Time:				
Miscellaneous:				
Total in USD (\$)				1200

Electronic Acknowledgement Receipt

EFS ID:	42488077
Application Number:	17114645
International Application Number:	
Confirmation Number:	8587
Title of Invention:	RANDOM NUMBER DERIVED MESSAGE TRANSMISSION TO A THIRD PARTY PROVIDER
First Named Inventor/Applicant Name:	Graham Merrett
Customer Number:	3624
Filer:	Brian Paul Gordaychik/Shaylynn McNally
Filer Authorized By:	Brian Paul Gordaychik
Attorney Docket Number:	RMT-PT001.11
Receipt Date:	19-APR-2021
Filing Date:	08-DEC-2020
Time Stamp:	15:57:13
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	CARD
Payment was successfully received in RAM	\$1200
RAM confirmation Number	E20214IF58011957
Deposit Account	220493
Authorized User	Shaylynn McNally
The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows: 37 CFR 1.16 (National application filing, search, and examination fees) 37 CFR 1.17 (Patent application and reexamination processing fees)	

37 CFR 1.19 (Document supply fees)
 37 CFR 1.20 (Post Issuance fees)
 37 CFR 1.21 (Miscellaneous fees and charges)

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Issue Fee Payment (PTO-85B)	RMT-PT001_11-Issue_fee-EFS.pdf	201309	no	1
			cb6b79c885503b0fd8ce6dc677600457e2960a4		

Warnings:

Information:

2	Fee Worksheet (SB06)	fee-info.pdf	30304	no	2
			e163f9dfb4da0ae0c572979b31f34952761a0866		

Warnings:

Information:

Total Files Size (in bytes):	231613
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This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

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

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

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

New International Application Filed with the USPTO as a Receiving Office

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

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Volpe Koenig
30 SOUTH 17TH STREET, 18TH FLOOR
PHILADELPHIA, PA 19103



**Courtesy Reminder for
Application Serial No: 17/114,645**

Attorney Docket No: RMT-PT001.11

Customer Number: 3624

Date of Electronic Notification: 03/31/2021

This is a courtesy reminder that new correspondence is available for this application. If you have not done so already, please review the correspondence. The official date of notification of the outgoing correspondence will be indicated on the form PTOL-90 accompanying the correspondence.

An email notification regarding the correspondence was sent to the following email address(es) associated with your customer number:

eoffice@volpe-koenig.com

To view your correspondence online or update your email addresses, please visit us anytime at <https://ppair-my.uspto.gov/pair/PrivatePair>.

If you have any questions, please email the Electronic Business Center (EBC) at EBC@uspto.gov or call 1-866-217-9197.

**NOTICE OF ALLOWANCE AND FEE(S) DUE**3624 7590 03/31/2021
Volpe Koenig
30 SOUTH 17TH STREET, 18TH FLOOR
PHILADELPHIA, PA 19103

EXAMINER

CHERY, DADY

ART UNIT

PAPER NUMBER

2461

DATE MAILED: 03/31/2021

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
17/114,645	12/08/2020	Graham Merrett	RMT-PT001.11	8587

TITLE OF INVENTION: RANDOM NUMBER DERIVED MESSAGE TRANSMISSION TO A THIRD PARTY PROVIDER

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	06/30/2021

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the ENTITY STATUS shown above. If the ENTITY STATUS is shown as SMALL or MICRO, verify whether entitlement to that entity status still applies.

If the ENTITY STATUS is the same as shown above, pay the TOTAL FEE(S) DUE shown above.

If the ENTITY STATUS is changed from that shown above, on PART B - FEE(S) TRANSMITTAL, complete section number 5 titled "Change in Entity Status (from status indicated above)".

For purposes of this notice, small entity fees are 1/2 the amount of undiscounted fees, and micro entity fees are 1/2 the amount of small entity fees.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

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

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

PART B - FEE(S) TRANSMITTAL

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

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Commissioner for Patents
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Alexandria, Virginia 22313-1450

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

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

3624 7590 03/31/2021
Volpe Koenig
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PHILADELPHIA, PA 19103

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

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
17/114,645	12/08/2020	Graham Merrett	RMT-PT001.11	8587

TITLE OF INVENTION: RANDOM NUMBER DERIVED MESSAGE TRANSMISSION TO A THIRD PARTY PROVIDER

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	06/30/2021

EXAMINER	ART UNIT	CLASS-SUBCLASS
CHERY, DADY	2461	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/SB/122) attached.

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

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(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) ☐ Advance Order - # of Copies _____

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

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

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

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

☐ Applicant certifying micro entity status. See 37 CFR 1.29

☐ Applicant asserting small entity status. See 37 CFR 1.27

☐ Applicant changing to regular undiscounted fee status.

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

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

Authorized Signature _____

Date _____

Typed or printed name _____

Registration No. _____



UNITED STATES PATENT AND TRADEMARK OFFICE

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

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
17/114,645	12/08/2020	Graham Merrett	RMT-PT001.11	8587
3624	7590	03/31/2021	EXAMINER	
Volpe Koenig			CHERY, DADY	
30 SOUTH 17TH STREET, 18TH FLOOR			ART UNIT	
PHILADELPHIA, PA 19103			PAPER NUMBER	
			2461	
DATE MAILED: 03/31/2021				

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

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

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

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

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

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

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

Privacy Act Statement

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

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

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

Notice of Allowability	Application No. 17/114,645	Applicant(s) Merrett, Graham	
	Examiner DADY CHERY	Art Unit 2461	AIA (FITF) Status No

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

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

1. ☒ This communication is responsive to 03/18/21.
☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on _____.

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

3. ☒ The allowed claim(s) is/are 1-30. As a result of the allowed claim(s), you may be eligible to benefit from the **Patent Prosecution Highway** program at a participating intellectual property office for the corresponding application. For more information, please see http://www.uspto.gov/patents/init_events/pph/index.jsp or send an inquiry to PPHfeedback@uspto.gov.

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

Certified copies:

a) ☒ All b) ☐ Some *c) ☐ None of the:

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

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

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

* Certified copies not received: _____.

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

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

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

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

Attachment(s)

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

/DADY CHERY/ Primary Examiner, Art Unit 2461	
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Issue Classification 	Application/Control No. 17/114,645	Applicant(s)/Patent Under Reexamination Merrett, Graham	
	Examiner DADY CHERY	Art Unit 2461	

CPC						
Symbol					Type	Version
H04W	/	4	/	14	F	2013-01-01
H04L	/	51	/	36	I	2013-01-01
H04L	/	51	/	38	I	2013-01-01
H04W	/	4	/	18	I	2013-01-01
H04L	/	69	/	24	I	2013-01-01
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	Version
	/		/		

NONE		Total Claims Allowed:	
(Assistant Examiner)	(Date)	30	
/DADY CHERY/ Primary Examiner, Art Unit 2461 (Primary Examiner)	26 March 2021 (Date)	O.G. Print Claim(s) 1	O.G. Print Figure 1

Issue Classification 	Application/Control No.	Applicant(s)/Patent Under Reexamination
	17/114,645	Merrett, Graham
	Examiner	Art Unit
	DADY CHERY	2461

INTERNATIONAL CLASSIFICATION			
CLAIMED			
H04W	/	4	/ 14
NON-CLAIMED			
	/		/

US ORIGINAL CLASSIFICATION	
CLASS	SUBCLASS

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

NONE		Total Claims Allowed:	
(Assistant Examiner)	(Date)	30	
/DADY CHERY/ Primary Examiner, Art Unit 2461 (Primary Examiner)	26 March 2021 (Date)	O.G. Print Claim(s) 1	O.G. Print Figure 1

Issue Classification 	Application/Control No. 17/114,645	Applicant(s)/Patent Under Reexamination Merrett, Graham
	Examiner DADY CHERY	Art Unit 2461

☐ Claims renumbered in the same order as presented by applicant	☐ CPA	☒ T.D.	☐ R.1.47
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CLAIMS															
Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original
1	1	10	10	19	19	28	28								
2	2	11	11	21	20	29	29								
3	3	12	12	22	21	30	30								
4	4	13	13	20	22										
7	5	14	14	23	23										
8	6	15	15	24	24										
5	7	16	16	25	25										
6	8	17	17	26	26										
9	9	18	18	27	27										

NONE (Assistant Examiner) (Date)		Total Claims Allowed: 30	
/DADY CHERY/ Primary Examiner, Art Unit 2461 (Primary Examiner) (Date)		26 March 2021 (Date)	O.G. Print Claim(s) 1
			O.G. Print Figure 1

<i>Search Notes</i> 	Application/Control No. 17/114,645	Applicant(s)/Patent Under Reexamination Merrett, Graham
	Examiner DADY CHERY	Art Unit 2461

CPC - Searched*		
Symbol	Date	Examiner
H04L12/5601 H04L2012/5603 H04L2012/5604 H04L2012/5607 H04L2012/5608 H04W84/12 H04W88/08 H04J2203/0019 H04L12/18 H04L12/184 H04L12/1845 H04L12/185 H04L2012/ 5642 H04L2012/6416 H04L29/06455 H04L29/08693 H04L29/ 12292 H04L47/15 H04L47/806 H04L49/201 H04L49/203 H04L61/2069 H04L65/4076 H04L67/1044 H04L67/26 H04N21/ 64 H04N21/6405 H04Q2011/0047 H04Q2213/242 H04W4/06 H04L12/64 H04L12/6418 H04L12/66 H04W40/26 H04L29/06 H04L29/06326 H04M7/006 H04Q2213/13176 H04Q2213/13204 H04Q2213/13209 H04Q3/0045 H04L49/101 H04L49/25 H04Q11/0478 H04L29/06027	02/03/2021	DC

CPC Combination Sets - Searched*		
Symbol	Date	Examiner

US Classification - Searched*			
Class	Subclass	Date	Examiner

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

Search Notes		
Search Notes	Date	Examiner
Inventorship, NPL , and Plus Search	02/03/2021	DC
Updated Search	03/26/2021	DC

/DADY CHERY/ Primary Examiner, Art Unit 2461	
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<i>Search Notes</i> 	Application/Control No. 17/114,645	Applicant(s)/Patent Under Reexamination Merrett, Graham
	Examiner DADY CHERY	Art Unit 2461

Interference Search			
US Class/CPC Symbol	US Subclass/CPC Group	Date	Examiner
	H04L12/5601 H04L2012/5603 H04L2012/5604 H04L2012/5607 H04L2012/5608 H04W84/12 H04W88/08 H04J2203/0019 H04L12/18 H04L12/184 H04L12/1845 H04L12/185 H04L2012/5642 H04L2012/6416 H04L29/06455 H04L29/08693 H04L29/12292 H04L47/15 H04L47/806 H04L49/201 H04L49/203 H04L61/2069 H04L65/4076 H04L67/1044 H04L67/26 H04N21/64 H04N21/6405 H04Q2011/0047 H04Q2213/242 H04W4/06 H04L12/64 H04L12/6418 H04L12/66 H04W40/26 H04L29/06 H04L29/06326 H04M7/006 H04Q2213/13176 H04Q2213/13204 H04Q2213/13209 H04Q3/0045 H04L49/101 H04L49/25 H04Q11/0478 H04L29/06027	03/26/2021	DC

/DADY CHERY/ Primary Examiner, Art Unit 2461	
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PE2E SEARCH - Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	British Equivalents	Time Stamp
L8	23155	(370/310.2,312,352-356).ccls.	(US-PGPUB ; USPAT)	OR	ON	ON	2017/06/11 04:06 PM
L9	17020	(455/412,412.2,414.1,418,486).ccls.	(US-PGPUB ; USPAT)	OR	ON	ON	2017/06/11 04:06 PM
L10	115716	(H04L12/5601 H04L2012/5603 H04L2012/5604 H04L2012/5607 H04L2012/5608 H04W84/12 H04W88/08 H04J2203/0019 H04L12/18 H04L12/184 H04L12/1845 H04L12/185 H04L2012/5642 H04L2012/6416 H04L29/06455 H04L29/08693 H04L29/12292 H04L47/15 H04L47/806 H04L49/201 H04L49/203 H04L61/2069 H04L65/4076 H04L67/1044 H04L67/26 H04N21/64 H04N21/6405 H04Q2011/0047 H04Q2213/242 H04W4/06 H04L12/64 H04L12/6418 H04L12/66 H04W40/26 H04L29/06 H04L29/06326 H04M7/006 H04Q2213/13176 H04Q2213/13204 H04Q2213/13209 H04Q3/0045 H04L49/101 H04L49/25 H04Q11/0478 H04L29/06027).CPC.	(US-PGPUB ; USPAT)	OR	ON	ON	2017/06/11 04:06 PM
L11	600	L8 and L9	(US-PGPUB ; USPAT)	OR	ON	ON	2017/06/11 04:06 PM
L12	149	L10 and L11	(US-PGPUB ; USPAT)	OR	ON	ON	2017/06/11 04:06 PM
L13	12	(merrett near2 graham).in.	(US-PGPUB ; USPAT)	OR	ON	ON	2017/06/11 04:06 PM
L17	8	(message and client and address and packet and switched and WLAN and SMS).clm.	(US-PGPUB ; USPAT)	OR	ON	ON	2018/01/21 06:01 PM

L31	11	(message AND client AND address AND packet AND switched AND WLAN AND SMS).clm.	(US-PGPUB ; USPAT ; USOCR ; FPRS ; EPO ; JPO ; DERWENT ; IBM_TDB)	OR	ON	ON	2020/10/09 01:10 PM
L36	129	(short near2 message near2 service near2 center SMSC) SAME (short near2 message near2 service SMS) SAME (wireless near2 local near2 area near2 network wLAN) SAME (subscribers device user) SAME (list\$3 database table)	(US-PGPUB ; USPAT ; USOCR ; FIT (AU , AP , AT , CA , CH , CN , DD , DE , EA , EP , ES , FR , GB , JP , KR , OA , RU , SU , WO) ; FPRS ; EPO ; JPO ; DERWENT ; IBM_TDB)	OR	ON	ON	2021/02/03 12:02 PM
L37	562	(short near2 message near2 service near2 center SMSC) SAME (short near2 message near2 service SMS) SAME (wireless near2 local near2 area near2 network wLAN)	(US-PGPUB ; USPAT ; USOCR ; FIT (AP , AT , AU , CA , CH , CN , DD , DE , EA , EP , ES , FR , GB , JP , KR , OA , RU , SU , WO) ; FPRS ; EPO ; JPO ; DERWENT ; IBM_TDB)	OR	ON	ON	2021/02/03 12:02 PM
L39	200	L37 AND L10	(US-PGPUB ; USPAT ; USOCR ; FIT (AP , AT , AU , CA , CH , CN , DD , DE , EA , EP , ES , FR , GB , JP , KR , OA , RU , SU , WO) ; FPRS ; EPO ; JPO ; DERWENT ; IBM_TDB)	OR	ON	ON	2021/02/03 12:02 PM
L40	10	L37 AND L9	(US-PGPUB ; USPAT ; USOCR ; FIT (AP , AT , AU , CA , CH , CN , DD , DE , EA , EP , ES , FR , GB , JP , KR , OA , RU , SU , WO) ; FPRS ; EPO ; JPO ; DERWENT ; IBM_TDB)	OR	ON	ON	2021/02/03 12:02 PM

PE2E SEARCH - Search History (Interference)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	British Equivalents	Time Stamp
N14	5	(merrett near2 graham).in.	(USPAT)	OR	ON	ON	2017/06/11 04:06 PM
N19	4	(message and client and address and packet and switched and WLAN and SMS).clm.	(USPAT)	OR	ON	ON	2018/01/21 06:01 PM
N20	11	(message AND client AND address AND packet AND switched AND WLAN AND SMS).clm.	(US-PGPUB ; USPAT)	OR	ON	ON	2020/10/09 01:10 PM



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APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
17/114,645	12/08/2020	Graham Merrett	RMT-PT001.11

CONFIRMATION NO. 8587

PUBLICATION NOTICE



3624

Volpe Koenig
30 SOUTH 17TH STREET, 18TH FLOOR
PHILADELPHIA, PA 19103

Title:RANDOM NUMBER DERIVED MESSAGE TRANSMISSION TO A THIRD PARTY PROVIDER

Publication No.US-2021-0092566-A1

Publication Date:03/25/2021

NOTICE OF PUBLICATION OF APPLICATION

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

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

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

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

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

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

Doc Code: DIST.E.FILE Document Description: Electronic Terminal Disclaimer - Filed		PTO/SB/26 U.S. Patent and Trademark Office Department of Commerce
Electronic Petition Request	TERMINAL DISCLAIMER TO OBIATE A DOUBLE PATENTING REJECTION OVER A "PRIOR" PATENT	
Application Number	17114645	
Filing Date	08-Dec-2020	
First Named Inventor	Graham Merrett	
Attorney Docket Number	RMT-PT001.11	
Title of Invention	RANDOM NUMBER DERIVED MESSAGE TRANSMISSION TO A THIRD PARTY PROVIDER	
☒ Filing of terminal disclaimer does not obviate requirement for response under 37 CFR 1.111 to outstanding Office Action ☒ This electronic Terminal Disclaimer is not being used for a Joint Research Agreement.		
Owner	Percent Interest	
Rembrandt Messaging Technologies II, LP.	100%	
<p>The owner(s) with percent interest listed above in the instant application hereby disclaims, except as provided below, the terminal part of the statutory term of any patent granted on the instant application which would extend beyond the expiration date of the full statutory term of prior patent number(s)</p> <p>10893395</p> <p>as the term of said prior patent is presently shortened by any terminal disclaimer. The owner hereby agrees that any patent so granted on the instant application shall be enforceable only for and during such period that it and the prior patent are commonly owned. This agreement runs with any patent granted on the instant application and is binding upon the grantee, its successors or assigns.</p> <p>In making the above disclaimer, the owner does not disclaim the terminal part of the term of any patent granted on the instant application that would extend to the expiration date of the full statutory term of the prior patent, "as the term of said prior patent is presently shortened by any terminal disclaimer," in the event that said prior patent later:</p> <ul style="list-style-type: none"> - expires for failure to pay a maintenance fee; - is held unenforceable; - is found invalid by a court of competent jurisdiction; - is statutorily disclaimed in whole or terminally disclaimed under 37 CFR 1.321; - has all claims canceled by a reexamination certificate; - is reissued; or - is in any manner terminated prior to the expiration of its full statutory term as presently shortened by any terminal disclaimer. <p>☒ Terminal disclaimer fee under 37 CFR 1.20(d) is included with Electronic Terminal Disclaimer request.</p>		

☐ I certify, in accordance with 37 CFR 1.4(d)(4), that the terminal disclaimer fee under 37 CFR 1.20(d) required for this terminal disclaimer has already been paid in the above-identified application.	
Applicant claims the following fee status:	
☐ Small Entity ☐ Micro Entity ☒ Regular Undiscounted	
I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.	
THIS PORTION MUST BE COMPLETED BY THE SIGNATORY OR SIGNATORIES I certify, in accordance with 37 CFR 1.4(d)(4) that I am:	
☒ An attorney or agent registered to practice before the Patent and Trademark Office who is of record in this application Registration Number <u>62179</u>	
☐ A sole inventor ☐ A joint inventor; I certify that I am authorized to sign this submission on behalf of all of the inventors as evidenced by the power of attorney in the application ☐ A joint inventor; all of whom are signing this request	
Signature	/Brian P. Gordaychik/
Name	Brian P. Gordaychik

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

Electronic Patent Application Fee Transmittal				
Application Number:		17114645		
Filing Date:		08-Dec-2020		
Title of Invention:		RANDOM NUMBER DERIVED MESSAGE TRANSMISSION TO A THIRD PARTY PROVIDER		
First Named Inventor/Applicant Name:		Graham Merrett		
Filer:		Brian Paul Gordaychik/Shaylynn McNally		
Attorney Docket Number:		RMT-PT001.11		
Filed as Large Entity				
Filing Fees for Utility under 35 USC 111(a)				
Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Basic Filing:				
STATUTORY OR TERMINAL DISCLAIMER	1814	1	170	170
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				

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

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

Application No.: 17114645

Filing Date: 08-Dec-2020

Applicant/Patent under Reexamination: Merrett

Electronic Terminal Disclaimer filed on March 18, 2021

☒ APPROVED

This patent is subject to a terminal disclaimer

☐ DISAPPROVED

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

U.S. Patent and Trademark Office

Electronic Acknowledgement Receipt

EFS ID:	42213718
Application Number:	17114645
International Application Number:	
Confirmation Number:	8587
Title of Invention:	RANDOM NUMBER DERIVED MESSAGE TRANSMISSION TO A THIRD PARTY PROVIDER
First Named Inventor/Applicant Name:	Graham Merrett
Customer Number:	3624
Filer:	Brian Paul Gordaychik/Shaylynn McNally
Filer Authorized By:	Brian Paul Gordaychik
Attorney Docket Number:	RMT-PT001.11
Receipt Date:	18-MAR-2021
Filing Date:	08-DEC-2020
Time Stamp:	16:54:28
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	CARD
Payment was successfully received in RAM	\$ 170
RAM confirmation Number	E20213HG54234633
Deposit Account	220493
Authorized User	Shaylynn McNally
The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows: 37 CFR 1.16 (National application filing, search, and examination fees) 37 CFR 1.17 (Patent application and reexamination processing fees)	

37 CFR 1.19 (Document supply fees)

37 CFR 1.20 (Post Issuance fees)

37 CFR 1.21 (Miscellaneous fees and charges)

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Terminal Disclaimer-Filed (Electronic)	eTerminal-Disclaimer.pdf	33450	no	2
			604675e9af316917d6efba4ebda5222336fd dcb3		

Warnings:

Information:

2	Fee Worksheet (SB06)	fee-info.pdf	30357	no	2
			7dfbdd2870073cf24c0912f1e298ef39f7292 1f0		

Warnings:

Information:

Total Files Size (in bytes):

63807

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

New Applications Under 35 U.S.C. 111

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

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

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

New International Application Filed with the USPTO as a Receiving Office

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

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In the **PATENT APPLICATION** of:

Rembrandt Messaging Technologies II, LP.

Application No.: 17/114,645

Confirmation No.: 8587

Filed: December 8, 2020

For: RANDOM NUMBER DERIVED
MESSAGE TRANSMISSION TO A THIRD
PARTY PROVIDER

Group: 8587

Examiner: Dady Chery

Our File: RMT-PT001.11

Date: March 18, 2021

RESPONSE PURSUANT TO 37 C.F.R. §1.111

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

This Response and Terminal Disclaimer are being timely filed in response to the Non-Final Office Action dated February 8, 2021.

Please amend the application without prejudice or disclaimer as follows:

Amendments to the Claims:

This listing of the claims will replace all prior versions of the claims in the application:

1. (Original) A mobile wireless device that transmits (i) at least some messages to at least some recipient devices that correspond to subscribers of a service for receiving packet-switched messages, wherein the service includes a server that receives packet-switched messages transmitted via the service to recipient devices that correspond to subscribers of the service, and (ii) at least some messages over a cellular network to at least some recipient devices that do not correspond to subscribers of the service, the mobile wireless device comprising:

a wireless local area network (WLAN) transceiver that transmits messages from the mobile wireless device to a WLAN base station and subsequently over the Internet to the server that receives packet-switched messages transmitted via the service to recipient devices that correspond to subscribers of the service, before delivery to a recipient device;

a cellular transceiver that transmits messages from the mobile wireless device to a cellular base station before delivery to a recipient device, wherein the cellular transceiver and the cellular base station communicate using a radio communications protocol that supports transmission of multimedia messages comprising at least one of images, audio clips or videos;

wherein the mobile wireless device connects via the WLAN base station to the

server that receives packet-switched messages transmitted via the service to recipient devices that correspond to subscribers of the service;

wherein the mobile wireless device connects via the cellular base station to the server that receives packet-switched messages transmitted via the service to recipient devices that correspond to subscribers of the service;

wherein the mobile wireless device transmits packet-switched messages using a packet-switched bearer supported by the WLAN base station and transmits packet-switched messages using a packet-switched bearer supported by the cellular base station; and

a message client that retrieves, from a message, information corresponding to at least one mobile phone number of a wireless device of an addressed recipient;

wherein the WLAN transceiver:

- (i) transmits a request, including at least information corresponding to the mobile phone number of the wireless device of the addressed recipient, via the WLAN base station and the Internet, to a server that maintains a subscriber list, to determine whether the wireless device of the addressed recipient corresponds to a subscriber of the service; and
- (ii) receives a response from the server that maintains the subscriber list, via the WLAN base station and the Internet, indicating whether the wireless device of the addressed recipient

corresponds to a subscriber of the service, wherein a negative response indicates that the wireless device of the addressed recipient is not a subscriber of the service;

wherein the mobile wireless device selects a packet-switched bearer for transmission of a message to the addressed recipient via the server that receives packet-switched messages transmitted via the service to recipient devices that correspond to subscribers of the service, based at least in part on the response indicating that the addressed recipient corresponds to a subscriber of the service;

wherein if a packet-switched bearer is selected for message transmission via the server that receives packet-switched messages transmitted via the service to recipient devices that correspond to subscribers of the service, the mobile wireless device chooses for message transmission the packet-switched bearer supported by the WLAN base station or the packet-switched bearer supported by the cellular base station;

wherein the mobile wireless device transmits a message to the addressed recipient via the cellular base station, at least where the packet-switched bearer supported by the WLAN base station is not chosen for message transmission;

wherein the mobile wireless device transmits a message to the addressed recipient via the cellular base station, and without traversing the server that receives packet-switched messages transmitted via the service to recipient devices that

correspond to subscribers of the service, before delivery to the addressed recipient, based at least in part on the response failing to indicate that the addressed recipient corresponds to a subscriber of the service;

wherein the mobile wireless device transmits a message limited to one or more binary-encoded characters to the addressed recipient via the cellular base station and through a short message service center (SMSC) before delivery to the addressed recipient, based at least in part on the response failing to indicate that the addressed recipient corresponds to a subscriber of the service;

wherein the mobile wireless device transmits message content intended for a third party provider, to a server associated with the service, which forwards a message comprising the message content intended for the third party provider, to the third party provider, wherein the message forwarded to the third party provider is derived at least in part from a random number.

2. (Original) The mobile wireless device of claim 1, wherein the mobile wireless device selects a packet-switched bearer for transmission of a message to the addressed recipient via the server that receives packet-switched messages transmitted via the service to recipient devices that correspond to subscribers of the service, based at least in part on the response indicating that the addressed recipient corresponds to a subscriber of the service and based at least in part upon a status indicating that an undelivered message parameter has not been exceeded.

3. (Original) The mobile wireless device of claim 1, wherein the mobile wireless device transmits a message limited to one or more binary-encoded characters to the addressed recipient via the cellular base station and through a short message service center (SMSC) before delivery to the addressed recipient, based at least in part on the response indicating that the addressed recipient corresponds to a subscriber of the service and based at least in part on a status indicating that an undelivered message parameter has been exceeded.

4. (Original) The mobile wireless device of claim 1, wherein the message forwarded to the third party provider is not identical to a message transmitted by the mobile wireless device comprising the message content intended for the third party provider.

5. (Original) The mobile wireless device of claim 1, wherein the message limited to one or more binary-encoded characters is further limited to less than a maximum allowable number of binary-encoded characters.

6. (Original) The mobile wireless device of claim 1, wherein a message to the addressed recipient is queued for later delivery using the service if the wireless device of the addressed recipient corresponds to a subscriber of the service, and the

wireless device of the addressed recipient, at a time of message transmission, is unable to connect to the server that receives packet-switched messages transmitted via the service to recipient devices that correspond to subscribers of the service.

7. (Original) The mobile wireless device of claim 4, wherein the message transmitted by the mobile wireless device comprising the message content intended for the third party provider includes at least one information element which is not included in the message forwarded to the third party provider.

8. (Original) The mobile wireless device of claim 7, wherein the information element is a phone number of the mobile wireless device.

9. (Original) The mobile wireless device of claim 1, further comprising:
a display that displays presence information associated with the wireless device of the addressed recipient;

wherein the mobile wireless device receives the presence information associated with the wireless device of the addressed recipient if the wireless device of the addressed recipient corresponds to a subscriber of the service.

10. (Original) The mobile wireless device of claim 1,
wherein the mobile wireless device receives an over the air (OTA) configuration

message which includes at least one parameter for establishing a server connection with the server associated with the service which forwards the message comprising the message content intended for the third party provider.

11. (Original) The mobile wireless device of claim 1, wherein the request is encapsulated in hypertext transfer protocol (HTTP) and a message to the addressed recipient is encapsulated in HTTP;

wherein the server that receives packet-switched messages transmitted via the service to recipient devices that correspond to subscribers of the service is located outside of the cellular network;

wherein the server that maintains the subscriber list is located outside of the cellular network.

12. (Original) The mobile wireless device of claim 1, wherein the message client retrieves information representative of at least one electronic mail (email) address of another wireless device of another recipient; wherein the addressed recipient and the another recipient are each a subscriber of the service.

13. (Original) The mobile wireless device of claim 12, wherein the WLAN transceiver transmits at least one message from the mobile wireless device to the wireless device of the addressed recipient and to the wireless device of the another

recipient.

14. (Original) The mobile wireless device of claim 1, wherein the wireless device transmits a short message service (SMS) message for authentication to the service.

15. (Original) The mobile wireless device of claim 1, wherein the mobile wireless device is authenticated to the service via SMS;

wherein the server that receives packet-switched messages transmitted via the service to recipient devices that correspond to subscribers of the service is located outside of the cellular network;

wherein the server that maintains the subscriber list is located outside of the cellular network.

16. (Original) The mobile wireless device of claim 1, further comprising:
wherein the mobile wireless device registers a user name tag or handle with the service, wherein the mobile wireless device transmits an authentication identifier for authentication to the service.

17. (Original) The mobile wireless device of claim 1, wherein the mobile wireless device receives an indication that the wireless device of the addressed

recipient is authenticated to the service.

18. (Original) The mobile wireless device of claim 1, wherein the mobile wireless device is not enabled to transmit messages via the server that receives packet-switched messages transmitted via the service to recipient devices that correspond to subscribers of the service before authentication of the mobile wireless device to the service.

19. (Original) The mobile wireless device of claim 1, wherein the mobile wireless device transmits location information.

20. (Original) The mobile wireless device of claim 1, wherein the mobile wireless device is authenticated to the service, via a mobile phone number of the mobile wireless device, prior to receiving the response.

21. (Original) The mobile wireless device of claim 1, further comprising:
a single interface for transmission of and reception of both text and multimedia messages;

wherein the single interface provides an option to add a voice attachment for subsequent playback by the wireless device of the addressed recipient.

22. (Original) The mobile wireless device of claim 19, wherein the message forwarded to the third party provider is derived at least in part from the location information.

23. (Original) The mobile wireless device of claim 1, wherein the message limited to one or more binary-encoded characters is a signaling system 7 (SS7) message.

24. (Original) The mobile wireless device of claim 1, wherein the message client provides an option to add one or more attachments based at least in part on the response.

25. (Original) The mobile wireless device of claim 1, wherein a negative response is consistent with the addressed recipient being unknown to the server that maintains the subscriber list.

26. (Original) The mobile wireless device of claim 1, wherein the random number is generated by the server associated with the service which forwards the message comprising the message content intended for the third party provider.

27. (Original) The mobile wireless device of claim 1, wherein the

multimedia messages comprising at least one of images, audio clips or videos are multimedia message service (MMS) messages.

28. (Currently amended) A system comprising:

a mobile wireless device; and

a server that receives message content intended for a third party provider, from the mobile wireless device;

wherein the mobile wireless device transmits (i) at least some messages to at least some recipient devices that correspond to subscribers of a service for receiving packet-switched messages, wherein the service includes a server that receives packet-switched messages transmitted via the service to recipient devices that correspond to subscribers of the service, and (ii) at least some messages over a cellular network to at least some recipient devices that do not correspond to subscribers of the service;

wherein the mobile wireless device comprises a wireless local area network (WLAN) transceiver that transmits messages from the mobile wireless device to a WLAN base station and subsequently over the Internet to the server that receives packet-switched messages transmitted via the service to recipient devices that correspond to subscribers of the service, before delivery to a recipient device;

wherein the mobile wireless device comprises a cellular transceiver that transmits messages from the mobile wireless device to a cellular base station before delivery to a recipient device, wherein the cellular transceiver and the cellular base

station communicate using a radio communications protocol that supports transmission of multimedia messages comprising at least one of images, audio clips or videos;

wherein the mobile wireless device connects via the WLAN base station to the server that receives packet-switched messages transmitted via the service to recipient devices that correspond to subscribers of the service;

wherein the mobile wireless device connects via the cellular base station to the server that receives packet-switched messages transmitted via the service to recipient devices that correspond to subscribers of the service;

wherein the mobile wireless device transmits packet-switched messages using a packet-switched bearer supported by the WLAN base station and transmits packet-switched messages using a packet-switched bearer supported by the cellular base station; and

wherein the mobile wireless device comprises a message client that retrieves, from a message, address information consisting of only one mobile phone number of a wireless device of an addressed recipient, during composition of the message;

wherein the WLAN transceiver:

- (i) transmits a request, including at least information corresponding to the mobile phone number of the wireless device of the addressed recipient, via the WLAN base station and the Internet, to a server that maintains a subscriber list, to determine whether

the wireless device of the addressed recipient corresponds to a subscriber of the service; and

- (ii) receives a response from the server that maintains the subscriber list, via the WLAN base station and the Internet, indicating whether the wireless device of the addressed recipient corresponds to a subscriber of the service, wherein a negative response indicates that the wireless device of the addressed recipient is not a subscriber of the service;

wherein the mobile wireless device selects a packet-switched bearer for transmission of a message to the addressed recipient via the server that receives packet-switched messages transmitted via the service to recipient devices that correspond to subscribers of the service, based at least in part on the response indicating that the addressed recipient corresponds to a subscriber of the service and based at least in part upon a status indicating that an undelivered message parameter has not been exceeded;

wherein if a packet-switched bearer is selected for message transmission via the server that receives packet-switched messages transmitted via the service to recipient devices that correspond to subscribers of the service, the mobile wireless device chooses for message transmission the packet-switched bearer supported by the WLAN base station or the packet-switched bearer supported by the

cellular base station;

wherein if the mobile wireless device chooses the packet-switched bearer supported by the WLAN base station for message transmission, the mobile wireless device performs message transmission to the server that receives packet-switched messages transmitted via the service to recipient devices that correspond to subscribers of the service;

wherein the mobile wireless device transmits a message to the addressed recipient via the cellular base station, at least where the packet-switched bearer supported by the WLAN base station is not chosen for message transmission;

wherein the mobile wireless device transmits a message to the addressed recipient via the cellular base station, and without traversing the server that receives packet-switched messages transmitted via the service to recipient devices that correspond to subscribers of the service, before delivery to the addressed recipient, based at least in part on the response failing to indicate that the addressed recipient corresponds to a subscriber;

wherein the mobile wireless device transmits a message limited to one or more binary-encoded characters to the addressed recipient via the cellular base station and through a short message service center (SMSC) before delivery to the addressed recipient, based at least in part on the response indicating that the addressed recipient corresponds to a subscriber of the service and based at least in part on a status indicating that an undelivered message parameter has been exceeded;

wherein a message to the addressed recipient is queued for later delivery using the service if the wireless device of the addressed recipient corresponds to a subscriber of the service having a status indicating that an undelivered message parameter has not been exceeded, and the wireless device of the addressed recipient, at a time of message transmission, is unable to connect to the server that receives packet-switched messages transmitted via the service to recipient devices that correspond to subscribers of the service;

wherein the server that receives the message content intended for the third party provider forwards a message comprising the message content intended for the third party provider, to the third party provider, wherein the message forwarded to the third party provider is derived at least in part from a random number.

29. (Original) A method comprising:

receiving, from a first mobile wireless device via the Internet, a subscription message for subscribing the first mobile wireless device to a service for receiving packet-switched messages other than short message service (SMS) messages, enhanced messaging service (EMS) messages and multimedia message service (MMS) messages;

storing information indicating that a first mobile phone number of the first mobile wireless device corresponds to a subscriber of the service, in a subscriber data store;

receiving a first request, from a second mobile wireless device, the first request including at least information corresponding to the first mobile phone number of the first mobile wireless device;

determining, via the subscriber data store, in response to receiving the first request, that the first mobile phone number of the first mobile wireless device corresponds to a subscriber of the service;

transmitting a first response, to the second mobile wireless device, indicating that the first mobile wireless device corresponds to a subscriber of the service;

receiving a second request, from the second mobile wireless device, the second request including at least information corresponding to another phone number; and

transmitting a second response, to the second mobile wireless device, indicating that the another phone number does not correspond to a subscriber of the service;

wherein a server associated with the service receives message content intended for a third party provider, from the second mobile wireless device, and forwards a message comprising the message content intended for the third party provider, to the third party provider, wherein the message forwarded to the third party provider is derived at least in part from a random number.

30. (Original) The method of claim 29, wherein the server associated with the service does not receive message content intended for the third party provider

Applicant: Rembrandt Messaging Technologies II, LP.
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from another mobile wireless device associated with the another phone number.

REMARKS/ARGUMENTS

After the foregoing Amendment, claims 1-30 are currently pending in this application. Claim 28 is amended.

Double Patenting Rejection

Claims 1-30 are rejected under the judicially created doctrine of nonstatutory obviousness-type double patenting as being unpatentable over claims 1-30 of U.S. Patent No. 10,893,395. A Terminal Disclaimer is submitted herewith to overcome the nonstatutory obviousness-type double patenting rejection. Accordingly, withdrawal of the nonstatutory obviousness-type double patenting rejection is respectfully requested.

Conclusion

If the Examiner believes that any additional minor formal matters need to be addressed in order to place this application in condition for allowance, or that a telephonic interview will help to materially advance the prosecution of this application, the Examiner is invited to contact the undersigned by telephone at the Examiner's convenience.

Applicant: Rembrandt Messaging Technologies II, LP.
Application No.: 17/114,645

In view of the foregoing, Applicant respectfully submits that the present application, including claims 1-30, is in condition for allowance and a notice to that effect is respectfully requested.

Respectfully submitted,

**Rembrandt Messaging
Technologies II, LP.**

By /Brian P. Gordaychik/
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BPG/sem
Enclosure(s)

Electronic Acknowledgement Receipt

EFS ID:	42213795
Application Number:	17114645
International Application Number:	
Confirmation Number:	8587
Title of Invention:	RANDOM NUMBER DERIVED MESSAGE TRANSMISSION TO A THIRD PARTY PROVIDER
First Named Inventor/Applicant Name:	Graham Merrett
Customer Number:	3624
Filer:	Brian Paul Gordaychik/Shaylynn McNally
Filer Authorized By:	Brian Paul Gordaychik
Attorney Docket Number:	RMT-PT001.11
Receipt Date:	18-MAR-2021
Filing Date:	08-DEC-2020
Time Stamp:	16:56:46
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no
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File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1		RMT-PT001_11- Response_to_NFOA_efs.pdf	153667 5140a53d47322519b3dba0568e08c121075033ef	yes	20

	Multipart Description/PDF files in .zip description		
	Document Description	Start	End
	Amendment/Req. Reconsideration-After Non-Final Reject	1	1
	Claims	2	18
	Applicant Arguments/Remarks Made in an Amendment	19	20
Warnings:			
Information:			
Total Files Size (in bytes):		153667	
<p>This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.</p> <p><u>New Applications Under 35 U.S.C. 111</u> If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.</p> <p><u>National Stage of an International Application under 35 U.S.C. 371</u> If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.</p> <p><u>New International Application Filed with the USPTO as a Receiving Office</u> If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.</p>			



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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
17/114,645	12/08/2020	Graham Merrett	RMT-PT001.11	8587
3624	7590	02/08/2021	EXAMINER	
Volpe Koenig			CHERY, DADY	
30 SOUTH 17TH STREET, 18TH FLOOR				
PHILADELPHIA, PA 19103				
			ART UNIT	PAPER NUMBER
			2461	
			NOTIFICATION DATE	DELIVERY MODE
			02/08/2021	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

eoffice@volpe-koenig.com

DETAILED ACTION

Notice of Pre-AIA or AIA Status

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

Double Patenting

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

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) or 1.321(d) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent either is shown to

be commonly owned with this application, or claims an invention made as a result of activities undertaken within the scope of a joint research agreement.

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

2. Claims 1-30 are rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claims 1-30 of U.S. Patent No. 10,893,395. Although the conflicting claims are not identical, they are not patentably distinct from each other because claim(s) 1-30 of U.S. Patent No. 10,893,395 contain(s) every element of claims 1-30 of the instant application and as such anticipate(s) claim(s) 1-30 of the instant application.

Conclusion

1. Any inquiry concerning this communication or earlier communications from the examiner should be directed to DADY CHERY whose telephone number is (571)270-1207. The examiner can normally be reached on M to T, 8 am to 5pm.

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, Huy D Vu can be reached on 571-272-3155. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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

/DADY CHERY/
Primary Examiner, Art Unit 2461

Notice of References Cited	Application/Control No. 17/114,645		Applicant(s)/Patent Under Reexamination Merrett, Graham	
	Examiner DADY CHERY		Art Unit 2461	Page 1 of 1

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	CPC Classification	US Classification
*	A	US-5729544-A	03-1998	Lev; Valy	H04L29/06	370/352
*	B	US-6678524-B1	01-2004	Hansson; Rolf	H04W72/048	370/338
	C					
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	K					
	L					
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FOREIGN PATENT DOCUMENTS

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

NON-PATENT DOCUMENTS

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

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

<i>Index of Claims</i> 	Application/Control No. 17/114,645	Applicant(s)/Patent Under Reexamination Merrett, Graham
	Examiner DADY CHERY	Art Unit 2461

✓	Rejected
=	Allowed

-	Cancelled
÷	Restricted

N	Non-Elected
I	Interference

A	Appeal
O	Objected

CLAIMS										
☐ Claims renumbered in the same order as presented by applicant ☐ CPA ☐ T.D. ☐ R.1.47										
CLAIM		DATE								
Final	Original	02/03/2021								
	1	✓								
	2	✓								
	3	✓								
	4	✓								
	5	✓								
	6	✓								
	7	✓								
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	29	✓								
	30	✓								

<i>Search Notes</i> 	Application/Control No. 17/114,645	Applicant(s)/Patent Under Reexamination Merrett, Graham
	Examiner DADY CHERY	Art Unit 2461

CPC - Searched*		
Symbol	Date	Examiner
H04L12/5601 H04L2012/5603 H04L2012/5604 H04L2012/5607 H04L2012/5608 H04W84/12 H04W88/08 H04J2203/0019 H04L12/18 H04L12/184 H04L12/1845 H04L12/185 H04L2012/ 5642 H04L2012/6416 H04L29/06455 H04L29/08693 H04L29/ 12292 H04L47/15 H04L47/806 H04L49/201 H04L49/203 H04L61/2069 H04L65/4076 H04L67/1044 H04L67/26 H04N21/ 64 H04N21/6405 H04Q2011/0047 H04Q2213/242 H04W4/06 H04L12/64 H04L12/6418 H04L12/66 H04W40/26 H04L29/06 H04L29/06326 H04M7/006 H04Q2213/13176 H04Q2213/13204 H04Q2213/13209 H04Q3/0045 H04L49/101 H04L49/25 H04Q11/0478 H04L29/06027	02/03/2021	DC

CPC Combination Sets - Searched*		
Symbol	Date	Examiner

US Classification - Searched*			
Class	Subclass	Date	Examiner

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

Search Notes		
Search Notes	Date	Examiner
Inventorship, NPL , and Plus Search	02/03/2021	DC

/DADY CHERY/ Primary Examiner, Art Unit 2461	
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<i>Search Notes</i> 	Application/Control No. 17/114,645	Applicant(s)/Patent Under Reexamination Merrett, Graham
	Examiner DADY CHERY	Art Unit 2461

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

/DADY CHERY/ Primary Examiner, Art Unit 2461	
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PE2E SEARCH - Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	British Equivalents	Time Stamp
L8	23155	(370/310.2,312,352-356).ccls.	US-PGPUB; USPAT	OR	ON	ON	2017/06/11 04:49 PM
L9	17020	(455/412,412.2,414.1,418,486).ccls.	US-PGPUB; USPAT	OR	ON	ON	2017/06/11 04:50 PM
L10	115716	(H04L12/5601 H04L2012/5603 H04L2012/5604 H04L2012/5607 H04L2012/5608 H04W84/12 H04W88/08 H04J2203/0019 H04L12/18 H04L12/184 H04L12/1845 H04L12/185 H04L2012/5642 H04L2012/6416 H04L29/06455 H04L29/08693 H04L29/12292 H04L47/15 H04L47/806 H04L49/201 H04L49/203 H04L61/2069 H04L65/4076 H04L67/1044 H04L67/26 H04N21/64 H04N21/6405 H04Q2011/0047 H04Q2213/242 H04W4/06 H04L12/64 H04L12/6418 H04L12/66 H04W40/26 H04L29/06 H04L29/06326 H04M7/006 H04Q2213/13176 H04Q2213/13204 H04Q2213/13209 H04Q3/0045 H04L49/101 H04L49/25 H04Q11/0478 H04L29/06027).CPC.	US-PGPUB; USPAT	OR	ON	ON	2017/06/11 04:51 PM
L11	600	L8 and L9	US-PGPUB; USPAT	OR	ON	ON	2017/06/11 04:51 PM
L12	149	L10 and L11	US-PGPUB; USPAT	OR	ON	ON	2017/06/11 04:51 PM

L13	12	(merrett near2 graham).in.	US-PGPUB; USPAT	OR	ON	ON	2017/06/11 04:52 PM
L17	8	(message and client and address and packet and switched and WLAN and SMS).clm.	US-PGPUB; USPAT	OR	ON	ON	2018/01/21 06:46 PM
L31	11	(message AND client AND address AND packet AND switched AND WLAN AND SMS).clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	ON	2020/10/09 01:26 PM
L36	129	(short near2 message near2 service near2 center SMSC) SAME (short near2 message near2 service SMS) SAME (wireless near2 local near2 area near2 network wLAN) SAME (subscribers device user) SAME (list\$3 database table)	US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, CA, CH, CN, DD, DE, EA, EP, ES, FR, GB, JP, KR, OA, RU, SU, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	ON	2021/02/03 12:47 PM
L37	562	(short near2 message near2 service near2 center SMSC) SAME (short near2 message near2 service SMS) SAME (wireless near2 local near2 area near2 network wLAN)	US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, CA, CH, CN, DD, DE, EA, EP, ES, FR, GB, JP, KR, OA, RU, SU, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	ON	2021/02/03 12:48 PM
L39	200	L37 AND L10	US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, CA, CH, CN, DD, DE, EA, EP, ES, FR, GB, JP, KR, OA, RU, SU, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	ON	2021/02/03 12:48 PM
L40	10	L37 AND L9	US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, CA, CH, CN, DD, DE, EA, EP, ES, FR, GB, JP, KR, OA, RU, SU, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	ON	2021/02/03 12:48 PM

PE2E SEARCH - Search History (Interference)

Ref #	Hits	Search Query	DBs	Default	Plurals	British	Time Stamp
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				Operator		Equivalents	
N14	5	(merrett near2 graham).in.	USPAT	OR	ON	ON	2017/06/11 04:52 PM
N19	4	(message and client and address and packet and switched and WLAN and SMS).clm.	USPAT	OR	ON	ON	2018/01/21 06:46 PM
N20	11	(message AND client AND address AND packet AND switched AND WLAN AND SMS).clm.	US-PGPUB; USPAT	OR	ON	ON	2020/10/09 01:26 PM

Bibliographic Data

Application No: 17/114,645

Foreign Priority claimed: ☒ Yes ☐ No

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

Verified and Acknowledged:

/DADY CHERY/

Examiner's Signature

Initials

Title:

RANDOM NUMBER DERIVED MESSAGE TRANSMISSION TO A
THIRD PARTY PROVIDER

FILING or 371(c) DATE	CLASS	GROUP ART UNIT	ATTORNEY DOCKET NO.
12/08/2020	370	2461	RMT-PT001.11
RULE			

APPLICANTS

REMBRANDT MESSAGING TECHNOLOGIES II, LP., West Conshohocken, PA, UNITED STATES

INVENTORS

Graham Merrett, Queensland, AUSTRALIA

CONTINUING DATA

This application is a CON of 16897161 06/09/2020 PAT 10893395

16897161 is a CON of 16714113 12/13/2019

16714113 is a CON of 15966965 04/30/2018ABN

15966965 is a CON of 15011000 01/29/2016ABN

15011000 is a CON of 14307166 06/17/2014ABN

14307166 is a CON of 13762347 02/07/2013 PAT 8918127

13762347 is a CON of 12452883 07/07/2010 PAT 8401576

12452883 is a 371 of PCT/AU2008/001043 07/18/2008

FOREIGN APPLICATIONS

AUSTRALIA AU2007903979 07/24/2007

AUSTRALIA AU2007906230 11/13/2007

IF REQUIRED, FOREIGN LICENSE GRANTED**

12/15/2020

STATE OR COUNTRY

AUSTRALIA

ADDRESS

Volpe Koenig
30 SOUTH 17TH STREET, 18TH FLOOR
PHILADELPHIA, PA 19103

UNITED STATES

FILING FEE RECEIVED

\$7,160

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

Application Number	17/114,645
Filing Date	2020-12-08
First Named Inventor	Merrett
Art Unit	2642
Examiner Name	Not Yet Known
Attorney Docket Number	RMT-PT001.11

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
		5,729,544	03/1998	Lev et al.			
		6,678,524	01/2004	Hansson et al.			
		6,707,472	03/2004	Grauman et al.			
		6,987,985	01/2006	Purkayastha et al.			
		7,085,812	08/2006	Sherwood			
		7,171,190	01/2007	Ye et al.			
		7,277,724	10/2007	Jones et al.			
		7,298,714	11/2007	Foster			
	*	7,546,117	06/2009	Lewis et al.			
		7,600,031	10/2009	Toutonghi			
		7,751,536	07/2010	Abramson et al.			
		8,060,566	11/2011	Appleman			
		8,412,846	04/2013	Shao et al.			
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		2006/0018290	01/2006	Zhao			
		2006/0026237	02/2006	Wang et al.			
		2006/0056309	03/2006	Maanitty			
		2006/0167849	07/2006	Marcus et al.			
		2007/0032251	02/2007	Shaheen			
	*	2007/0055634	03/2007	Albertao			
		2007/0197237	08/2007	Powell et al.			
		2008/0004051	01/2008	Sylvain			
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		2010/0131858	05/2010	Schultz et al.			

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Attorney Docket Number	RMT-PT001.11

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
		2003-088154	11/2003	KR				
		2006-0077401	07/2006	KR				
		2001/41477	06/2001	WO				
		2004/008336	01/2004	WO				
		2004/052033	06/2004	WO				
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		2004/061583	07/2004	WO				
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		2006/006753	01/2006	WO				
		2006/014603	02/2006	WO				

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EXAMINER INITIAL		DESCRIPTION (Including Author, Title, Date, Pertinent Pages, Etc.)
		ANGERER, "IP-Enabled Communication – The Future of Voice," (2005).
		AOL MOBILE SERVICES, "Full Service Mobile IM Using Text Messaging; Mobile Instant Messaging for the AOL Buddy List® Feature and AOL Instant Messenger™ Service," (2003).
		APPLE RETAIL GERMANY GMBH V. REMBRANDT MESSAGING TECHNOLOGIES, LP, "Defendant's Response to the Federal Patent Court – In the Nullity action of Apple Retail Germany GmbH versus Rembrandt Messaging Technologies, LP concerning European patent EP 2 177 072 (60 2008 022 036)", Docket number (FPC): 5 Ni 22/16 (EP), Federal Patent Court, Munich Germany (October 25, 2016).
		APPLE RETAIL GERMANY GMBH V. REMBRANDT MESSAGING TECHNOLOGIES, LP, "Summons for a hearing – In the proceedings concerning the patent EP 2 177 072", Docket number (FPC): 5 Ni 22/16 (EP), Federal Patent Court, Munich Germany (September 14, 2017).
		APPLE RETAIL GERMANY GMBH V. REMBRANDT MESSAGING TECHNOLOGIES, LP, "Reply to Grounds of Objection of the Assignee", Docket number (FPC): 5 Ni 22/16 (EP), European Patent: EP 2 177 072, Federal Patent Court, Munich Germany (July 27, 2017).
		APPLE RETAIL GERMANY GMBH V. REMBRANDT MESSAGING TECHNOLOGIES, LP, "Response to the Preliminary Opinion of the Federal Patent Court", Docket number (FPC): 5 Ni 22/16 (EP), In the proceedings concerning the patent EP 2 177 072, Federal Patent Court, Munich Germany (November 13, 2017).

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Application Number	17/114,645
Filing Date	2020-12-08
First Named Inventor	Merrett
Art Unit	2642
Examiner Name	Not Yet Known
Attorney Docket Number	RMT-PT001.11

EXAMINER INITIAL	DESCRIPTION (Including Author, Title, Date, Pertinent Pages, Etc.)
	EUROPEAN TELECOMMUNICATION STANDARDS INSTITUTE, "Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); General Packet Radio Service (GPRS); Service description; Stage 2 (3GPP TS 23.060 version 3.6.0 Release 1999).
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	LEI ET AL., "Context-Aware Unified Communication", Proceedings of the 2004 IEEE International Conference on Mobile Data Management, pgs. 1-11 (2004).
	NETPLANET.ORG, "Instant Messaging," (January 13, 2007) available at https://web.archive.org/web/20070113213800/www.netplanet.org/dienste/im.shtml (last visited October 16, 2020).
	SCHILLER, Mobile Communications, Addison-Wesley Publishers, ISBN 9780321123817 (1999).
	Screenshots from Focus-Online Magazine referring to the 10 Best Mobile Phones (June 21, 2007).
	TECH-RECIPES.COM, "Send SMS Text Messages From AIM," (June 18, 2007) available at https://web.archive.org/web/20070618171355/http://www.tech-recipes.com/instant_messaging_tips116.html (last visited October 16, 2020).
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	THIRD GENERATION PARTNERSHIP PROJECT, "Technical Specification Group Services and System Aspects; Multimedia Messaging Service (MMS); Stage 1 (Release 7)," 3GPP TS 22.140 V7.0.0 (June 2007).
	THIRD GENERATION PARTNERSHIP PROJECT, "Technical Specification Group Services and System Aspects; Services Aspects; Stage 1 Multimedia Messaging Service (3G TS 22.140 version 0.1.0)," 3GPP TS 22.140 V0.1.0 (July 1999).
	THIRD GENERATION PARTNERSHIP PROJECT, "Technical Specification Group Services and System Aspects; General Packet Radio Service (GPRS); Service description; Stage 2 (Release 7)," 3GPP TS 23.060 V7.4.0 (March 2007).
	THIRD GENERATION PARTNERSHIP PROJECT, "Technical Specification Group Services and System Aspects; General Packet Radio Service (GPRS); Service description; Stage 2 (Release 7)," 3GPP TS 23.060 V7.7.0 (June 2008).
	THIRD GENERATION PARTNERSHIP PROJECT, "Technical Specification Group Services and System Aspects; General Packet Radio Service (GPRS); Service description; Stage 2 (Release 8)," 3GPP TS 23.060 V8.1.0 (June 2008).

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

Application Number	17/114,645
Filing Date	2020-12-08
First Named Inventor	Merrett
Art Unit	2642
Examiner Name	Not Yet Known
Attorney Docket Number	RMT-PT001.11

EXAMINER INITIAL		DESCRIPTION (Including Author, Title, Date, Pertinent Pages, Etc.)
		VERIZON WIRELESS, "How to Use Guide: Mobile IM," (2005).
		WIKIPEDIA, "General Packet Radio Service," (July 23, 2007).
		WIKIPEDIA, "Home Location Register (HLR)," subsection of article on Network Switching Subsystem, (July 19, 2007).
		WIKIPEDIA, "Instant Messaging," (July 6, 2007).
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		WIKIPEDIA, "Telephone number mapping," (June 27, 2007).
		WIKIPEDIA, "Wi-Fi," (July 23, 2007).

02/03/2021

/DADY CHERY/



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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
17/114,645	12/08/2020	Graham Merrett	RMT-PT001.11	8587
3624	7590	01/12/2021	EXAMINER	
Volpe Koenig 30 SOUTH 17TH STREET, 18TH FLOOR PHILADELPHIA, PA 19103				
			ART UNIT	PAPER NUMBER
			2461	
			NOTIFICATION DATE	DELIVERY MODE
			01/12/2021	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

eoffice@volpe-koenig.com

<i>Decision Granting Request for Prioritized Examination (Track I)</i>	Application No. 17/114,645	Applicant(s) Merrett, Graham	
	Examiner CHERYL P GIBSON BAYLOR	Art Unit OPET	AIA (FITF) Status No
<p>1. THE REQUEST FILED <u>08 December 2020</u> IS GRANTED .</p> <p>The above-identified application has met the requirements for prioritized examination</p> <p>A. ☒ for an original nonprovisional application (Track I).</p> <p>B. ☐ for an application undergoing continued examination (RCE).</p> <p>2. The above-identified application will undergo prioritized examination. The application will be accorded special status throughout its entire course of prosecution until one of the following occurs:</p> <p>A. filing a <u>petition for extension of time</u> to extend the time period for filing a reply;</p> <p>B. filing an <u>amendment to amend the application to contain more than four independent claims, more than thirty total claims</u>, or a multiple dependent claim;</p> <p>C. filing a <u>request for continued examination</u> ;</p> <p>D. filing a notice of appeal;</p> <p>E. filing a request for suspension of action;</p> <p>F. mailing of a notice of allowance;</p> <p>G. mailing of a final Office action;</p> <p>H. completion of examination as defined in 37 CFR 41.102; or</p> <p>I. abandonment of the application.</p> <p>Telephone inquiries with regard to this decision should be directed to CHERYL GIBSON BAYLOR at (571)272-3213. In his/her absence, calls may be directed to Petition Help Desk at (571) 272-3282.</p>			
/CHERYL GIBSON BAYLOR/ Paralegal Specialist, OPET			

PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875						Application or Docket Number 17/114,645			
APPLICATION AS FILED - PART I									
(Column 1)		(Column 2)		SMALL ENTITY		OR OTHER THAN SMALL ENTITY			
FOR	NUMBER FILED	NUMBER EXTRA	RATE(\$)	FEE(\$)		RATE(\$)	FEE(\$)		
BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A	N/A			N/A	320		
SEARCH FEE (37 CFR 1.16(k), (i), or (m))	N/A	N/A	N/A			N/A	700		
EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A	N/A			N/A	800		
TOTAL CLAIMS (37 CFR 1.16(i))	30	minus 20 = *	10			x 100 =	1000		
INDEPENDENT CLAIMS (37 CFR 1.16(h))	3	minus 3 = *				x 480 =	0.00		
APPLICATION SIZE FEE (37 CFR 1.16(s))	If the specification and drawings exceed 100 sheets of paper, the application size fee due is \$310 (\$155 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).						0.00		
MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))							0.00		
* If the difference in column 1 is less than zero, enter "0" in column 2.				TOTAL		TOTAL	2820		
APPLICATION AS AMENDED - PART II									
(Column 1)		(Column 2)		(Column 3)		SMALL ENTITY		OR OTHER THAN SMALL ENTITY	
AMENDMENT A	CLAIMS REMAINING AFTER AMENDMENT	HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE(\$)	ADDITIONAL FEE(\$)		RATE(\$)	ADDITIONAL FEE(\$)	
	Total (37 CFR 1.16(i))	*	Minus **	=	x =		x =		
	Independent (37 CFR 1.16(h))	*	Minus ***	=	x =		x =		
	Application Size Fee (37 CFR 1.16(s))								
	FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))								
				TOTAL ADD'L FEE		TOTAL ADD'L FEE			
AMENDMENT B	CLAIMS REMAINING AFTER AMENDMENT	HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE(\$)	ADDITIONAL FEE(\$)		RATE(\$)	ADDITIONAL FEE(\$)	
	Total (37 CFR 1.16(i))	*	Minus **	=	x =		x =		
	Independent (37 CFR 1.16(h))	*	Minus ***	=	x =		x =		
	Application Size Fee (37 CFR 1.16(s))								
	FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))								
				TOTAL ADD'L FEE		TOTAL ADD'L FEE			
* If the entry in column 1 is less than the entry in column 2, write "0" in column 3. ** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20". *** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3". The "Highest Number Previously Paid For" (Total or Independent) is the highest found in the appropriate box in column 1.									



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UNITED STATES DEPARTMENT OF COMMERCE
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APPLICATION NUMBER	FILING or 371(c) DATE	GRP ART UNIT	FIL FEE REC'D	ATTY. DOCKET NO	TOT CLAIMS	IND CLAIMS
17/114,645	12/08/2020	2642	2820	RMT-PT001.11	30	3

CONFIRMATION NO. 8587

FILING RECEIPT



CC000000 122038388

3624
Volpe Koenig
30 SOUTH 17TH STREET, 18TH FLOOR
PHILADELPHIA, PA 19103

Date Mailed: 12/17/2020

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

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

Inventor(s)

Graham Merrett, Queensland, AUSTRALIA;

Applicant(s)

REMBRANDT MESSAGING TECHNOLOGIES II, LP., West Conshohocken, PA;

Assignment For Published Patent Application

REMBRANDT MESSAGING TECHNOLOGIES II, LP., West Conshohocken, PA

Power of Attorney: The patent practitioners associated with Customer Number 03624

Domestic Priority data as claimed by applicant

This application is a CON of 16/897,161 06/09/2020
which is a CON of 16/714,113 12/13/2019
which is a CON of 15/966,965 04/30/2018 ABN
which is a CON of 15/011,000 01/29/2016 ABN
which is a CON of 14/307,166 06/17/2014 ABN
which is a CON of 13/762,347 02/07/2013 PAT 8918127
which is a CON of 12/452,883 07/07/2010 PAT 8401576
which is a 371 of PCT/AU2008/001043 07/18/2008

Foreign Applications (You may be eligible to benefit from the **Patent Prosecution Highway** program at the USPTO. Please see <http://www.uspto.gov> for more information.)

AUSTRALIA 2007903979 07/24/2007 No Access Code Provided

AUSTRALIA 2007906230 11/13/2007 No Access Code Provided

Permission to Access Application via Priority Document Exchange: Yes

Permission to Access Search Results: Yes

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

If Required, Foreign Filing License Granted: 12/15/2020

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 17/114,645**

Projected Publication Date: 03/25/2021

Non-Publication Request: No

Early Publication Request: No
Title

RANDOM NUMBER DERIVED MESSAGE TRANSMISSION TO A THIRD PARTY PROVIDER

Preliminary Class

455

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

PROTECTING YOUR INVENTION OUTSIDE THE UNITED STATES

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

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

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First Named Inventor	Merrett
Art Unit	2642
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Attorney Docket Number	RMT-PT001.11

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		6,707,472	03/2004	Grauman et al.			
		6,987,985	01/2006	Purkayastha et al.			
		7,085,812	08/2006	Sherwood			
		7,171,190	01/2007	Ye et al.			
		7,277,724	10/2007	Jones et al.			
		7,298,714	11/2007	Foster			
	*	7,546,117	06/2009	Lewis et al.			
		7,600,031	10/2009	Toutonghi			
		7,751,536	07/2010	Abramson et al.			
		8,060,566	11/2011	Appleman			
		8,412,846	04/2013	Shao et al.			
		2002/0077131	06/2002	Mizell et al.			
		2003/0040300	02/2003	Bodic et al.			
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		2006/0026237	02/2006	Wang et al.			
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		2008/0004051	01/2008	Sylvain			
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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**
(Not for submission under 37 CFR 1.99)

Application Number	17/114,645
Filing Date	2020-12-08
First Named Inventor	Merrett
Art Unit	2642
Examiner Name	Not Yet Known
Attorney Docket Number	RMT-PT001.11

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
		2003-088154	11/2003	KR				
		2006-0077401	07/2006	KR				
		2001/41477	06/2001	WO				
		2004/008336	01/2004	WO				
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OTHER DOCUMENTS

EXAMINER INITIAL		DESCRIPTION (Including Author, Title, Date, Pertinent Pages, Etc.)
		ANGERER, "IP-Enabled Communication – The Future of Voice," (2005).
		AOL MOBILE SERVICES, "Full Service Mobile IM Using Text Messaging; Mobile Instant Messaging for the AOL Buddy List® Feature and AOL Instant Messenger™ Service," (2003).
		APPLE RETAIL GERMANY GMBH V. REMBRANDT MESSAGING TECHNOLOGIES, LP, "Defendant's Response to the Federal Patent Court – In the Nullity action of Apple Retail Germany GmbH versus Rembrandt Messaging Technologies, LP concerning European patent EP 2 177 072 (60 2008 022 036)", Docket number (FPC): 5 Ni 22/16 (EP), Federal Patent Court, Munich Germany (October 25, 2016).
		APPLE RETAIL GERMANY GMBH V. REMBRANDT MESSAGING TECHNOLOGIES, LP, "Summons for a hearing – In the proceedings concerning the patent EP 2 177 072", Docket number (FPC): 5 Ni 22/16 (EP), Federal Patent Court, Munich Germany (September 14, 2017).
		APPLE RETAIL GERMANY GMBH V. REMBRANDT MESSAGING TECHNOLOGIES, LP, "Reply to Grounds of Objection of the Assignee", Docket number (FPC): 5 Ni 22/16 (EP), European Patent: EP 2 177 072, Federal Patent Court, Munich Germany (July 27, 2017).
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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**
(Not for submission under 37 CFR 1.99)

Application Number	17/114,645
Filing Date	2020-12-08
First Named Inventor	Merrett
Art Unit	2642
Examiner Name	Not Yet Known
Attorney Docket Number	RMT-PT001.11

EXAMINER INITIAL	DESCRIPTION (Including Author, Title, Date, Pertinent Pages, Etc.)
	EUROPEAN TELECOMMUNICATION STANDARDS INSTITUTE, "Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); General Packet Radio Service (GPRS); Service description; Stage 2 (3GPP TS 23.060 version 3.6.0 Release 1999).
	FALSTROM ET AL., "The E.164 to Uniform Resource Identifiers (URI) Dynamic Delegation Discovery System (DDDS) Application (ENUM)," Network Working Group, RFC 3761 (April 2004).
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	LEI ET AL., "Context-Aware Unified Communication", Proceedings of the 2004 IEEE International Conference on Mobile Data Management, pgs. 1-11 (2004).
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	THIRD GENERATION PARTNERSHIP PROJECT, "Technical Specification Group Services and System Aspects; Support of SMS and MMS over generic 3GPP IP access (Release 7)," 3GPP TR 23.804 V7.1.0 (September 2005).
	THIRD GENERATION PARTNERSHIP PROJECT, "Technical Specification Group Services and System Aspects; Multimedia Messaging Service (MMS); Stage 1 (Release 7)," 3GPP TS 22.140 V7.0.0 (June 2007).
	THIRD GENERATION PARTNERSHIP PROJECT, "Technical Specification Group Services and System Aspects; Services Aspects; Stage 1 Multimedia Messaging Service (3G TS 22.140 version 0.1.0)," 3GPP TS 22.140 V0.1.0 (July 1999).
	THIRD GENERATION PARTNERSHIP PROJECT, "Technical Specification Group Services and System Aspects; General Packet Radio Service (GPRS); Service description; Stage 2 (Release 7)," 3GPP TS 23.060 V7.4.0 (March 2007).
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	THIRD GENERATION PARTNERSHIP PROJECT, "Technical Specification Group Services and System Aspects; General Packet Radio Service (GPRS); Service description; Stage 2 (Release 8)," 3GPP TS 23.060 V8.1.0 (June 2008).

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

Application Number	17/114,645
Filing Date	2020-12-08
First Named Inventor	Merrett
Art Unit	2642
Examiner Name	Not Yet Known
Attorney Docket Number	RMT-PT001.11

EXAMINER INITIAL		DESCRIPTION (Including Author, Title, Date, Pertinent Pages, Etc.)
		VERIZON WIRELESS, "How to Use Guide: Mobile IM," (2005).
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		WIKIPEDIA, "Home Location Register (HLR)," subsection of article on Network Switching Subsystem, (July 19, 2007).
		WIKIPEDIA, "Instant Messaging," (July 6, 2007).
		WIKIPEDIA, "Presence Information," (June 6, 2007).
		WIKIPEDIA, "Sony Ericsson T68i," (June 25, 2007).
		WIKIPEDIA, "Telephone number mapping," (June 27, 2007).
		WIKIPEDIA, "Wi-Fi," (July 23, 2007).

Electronic Acknowledgement Receipt

EFS ID:	41353076
Application Number:	17114645
International Application Number:	
Confirmation Number:	8587
Title of Invention:	RANDOM NUMBER DERIVED MESSAGE TRANSMISSION TO A THIRD PARTY PROVIDER
First Named Inventor/Applicant Name:	Graham Merrett
Customer Number:	3624
Filer:	Brian Paul Gordaychik/Carey Kulp
Filer Authorized By:	Brian Paul Gordaychik
Attorney Docket Number:	RMT-PT001.11
Receipt Date:	11-DEC-2020
Filing Date:	
Time Stamp:	10:24:58
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no
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File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Transmittal Letter	RMT-PT001_11-IDStransmittal-EFS.pdf	91203 cd531eaa9fa0cc6045f801808a11e50d1ae4f1f1	no	3

Warnings:

Information:					
2	Information Disclosure Statement (IDS) Form (SB08)	RMT-PT001_11-MasterList-EFS. pdf	134302	no	4
			3d5dd25ec54272304f1e60216781ff30ab797fb3		
Warnings:					
Information:					
This is not an USPTO supplied IDS fillable form					
Total Files Size (in bytes):			225505		
<p>This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.</p> <p><u>New Applications Under 35 U.S.C. 111</u> If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.</p> <p><u>National Stage of an International Application under 35 U.S.C. 371</u> If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.</p> <p><u>New International Application Filed with the USPTO as a Receiving Office</u> If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.</p>					

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In the **PATENT APPLICATION** of:

Merrett

Application No.: 17/114,645

Confirmation No.: 8587

Filed: December 8, 2020

For: RANDOM NUMBER DERIVED
MESSAGE TRANSMISSION TO A THIRD
PARTY PROVIDER

Group: 2642

Examiner: Not Yet Known

Our File: RMT-PT001.11

Date: December 11, 2020

INFORMATION DISCLOSURE STATEMENT

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

Further to Applicant's Duty of Disclosure pursuant to 37 C.F.R. §1.56, Applicant wishes to bring to the Examiner's attention the material cited on the enclosed Information Disclosure Statement Form.

This Application is a continuation of U.S. Patent Application No. 16/897,161, filed June 9, 2020, which is a continuation of U.S. Patent Application No. 16/714,113, filed December 13, 2019, which is a continuation of U.S. Patent Application No. 15/966,965, filed April 30, 2018, which is a continuation of U.S. Patent Application No. 15/011,000, filed January 29, 2016, which is a continuation of U.S. Patent

6591524.1

Applicant: Rembrandt Messaging Technologies II
Application No.: 17/114,645

Application No. 14/307,166, filed June 17, 2014, which is a continuation of U.S. Patent Application No. 13/762,347, filed February 7, 2013, which issued December 23, 2014 as U.S. Patent No. 8,918,127, which is a continuation of U.S. Patent Application No. 12/452,883, filed July 7, 2010, which issued March 19, 2013 as U.S. Patent No. 8,401,576, which is the U.S. National Stage, under 35 U.S.C. §371, of International Application No. PCT/AU2008/001043, filed July 18, 2008, which claims the benefit of Australian Patent Application No. 2007906230, filed November 13, 2007 and Australian Patent Application No. 2007903979, filed July 24, 2007.

Pursuant to 37 C.F.R. §1.98(d) copies of documents cited in the parent application are not enclosed, but copies will be provided upon request. Documents that were not cited in the parent application are indicated by an asterisk (*) on the enclosed Information Disclosure Statement Form. Pursuant to 37 C.F.R. §1.98(a)(2)(ii), copies of the cited U.S. publications and/or patent documents have not been included.

Applicant: Rembrandt Messaging Technologies II
Application No.: 17/114,645

It is respectfully requested that the Examiner consider these documents and return an initialed copy of the Information Disclosure Statement Form indicating consideration of the cited materials.

Respectfully submitted,

Rembrandt Messaging
Technologies II, LP

By /Brian P. Gordaychik/
Brian P. Gordaychik
Registration No. 62,179
(215) 568-6400

Volpe Koenig
United Plaza
30 South 17th Street
Philadelphia, PA 19103

BPG/PCK
Enclosure

TRANSMITTAL FOR POWER OF ATTORNEY TO ONE OR MORE REGISTERED PRACTITIONERS

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

Application Number	Not Yet Known
Filing Date	December 8, 2020
First Named Inventor	Graham Merrett
Title	RANDOM NUMBER DERIVED MESSAGE TRANSMISSION TO A THIRD PARTY PROVIDER
Art Unit	Not Yet Known
Examiner Name	Not Yet Known
Attorney Docket Number	RMT-PT001.11

SIGNATURE of Applicant or Patent Practitioner

Signature	/Brian P. Gordaychik/	Date (Optional)	December 8, 2020
Name	Brian P. Gordaychik	Registration Number	62,179
Title (if Applicant is a juristic entity)			
Applicant Name (if Applicant is a juristic entity)	REMBRANDT MESSAGING TECHNOLOGIES II, LP.		

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

☐

*Total of _____ forms are submitted.

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

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

POWER OF ATTORNEY BY APPLICANT

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

Application Number

Filing Date

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



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

03624

OR



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

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



The address associated with the above-mentioned Customer Number

OR



The address associated with Customer Number:

OR



Firm or
Individual Name

Address

City

State

Zip

Country

Telephone

Email

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

REMBRANDT MESSAGING TECHNOLOGIES II, LP.



Inventor or Joint Inventor (title not required below)



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



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



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

SIGNATURE of Applicant for Patent

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

Signature

Date (Optional)

9/15/2020

Name

Daniel H. Golub, Secretary

Title

REMBRANDT MESSAGING TECHNOLOGIES II, LP, by its General Partner, REMBRANDT VIRGINIA MANAGEMENT, LLC

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



Total of

forms are submitted.

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

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

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

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	RMT-PT001.11
		Application Number	
Title of Invention	RANDOM NUMBER DERIVED MESSAGE TRANSMISSION TO A THIRD PARTY PROVIDER		
<p>The application data sheet is part of the provisional or nonprovisional application for which it is being submitted. The following form contains the bibliographic data arranged in a format specified by the United States Patent and Trademark Office as outlined in 37 CFR 1.76.</p> <p>This document may be completed electronically and submitted to the Office in electronic format using the Electronic Filing System (EFS) or the document may be printed and included in a paper filed application.</p>			

Secrecy Order 37 CFR 5.2:

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

Inventor Information:

Inventor	1				Remove	
Legal Name						
Prefix	Given Name	Middle Name	Family Name	Suffix		
	Graham		Merrett			
Residence Information (Select One) US Residency • Non US Residency Active US Military Service						
City	Queensland		Country of Residence ⁱ	AU		
Mailing Address of Inventor:						
Address 1	55 Lewis Street, Woolloongabba					
Address 2						
City	Queensland		State/Province			
Postal Code	4102		Country ⁱ	AU		
All Inventors Must Be Listed - Additional Inventor Information blocks may be generated within this form by selecting the Add button.						
Add						

Correspondence Information:

Enter either Customer Number or complete the Correspondence Information section below. For further information see 37 CFR 1.33(a).			
☐ An Address is being provided for the correspondence Information of this application.			
Customer Number	03624		
Email Address	eoffice@vklaw.com	Add Email	Remove Email

Application Information:

Title of the Invention	RANDOM NUMBER DERIVED MESSAGE TRANSMISSION TO A THIRD PARTY PROVIDER		
Attorney Docket Number	RMT-PT001.11	Small Entity Status Claimed	☐
Application Type	Nonprovisional		
Subject Matter	Utility		
Total Number of Drawing Sheets (if any)	7	Suggested Figure for Publication (if any)	1

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

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	RMT-PT001.11
		Application Number	
Title of Invention	RANDOM NUMBER DERIVED MESSAGE TRANSMISSION TO A THIRD PARTY PROVIDER		

Filing By Reference:

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

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

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

Publication Information:

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

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

Representative Information:

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

Please Select One:	☒ Customer Number ☐ US Patent Practitioner ☐ Limited Recognition (37 CFR 11.9)
Customer Number	03624

Domestic Benefit/National Stage Information:

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

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

Prior Application Status	Pending	Remove	
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
	Continuation of	16897161	2020-06-09

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	RMT-PT001.11
		Application Number	
Title of Invention	RANDOM NUMBER DERIVED MESSAGE TRANSMISSION TO A THIRD PARTY PROVIDER		

Prior Application Status	Pending	Remove			
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)		
16897161	Continuation of	16714113	2019-12-13		
Prior Application Status	Abandoned	Remove			
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)		
16714113	Continuation of	15966965	2018-04-30		
Prior Application Status	Abandoned	Remove			
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)		
15966965	Continuation of	15011000	2016-01-29		
Prior Application Status	Abandoned	Remove			
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)		
15011000	Continuation of	14307166	2014-06-17		
Prior Application Status	Patented	Remove			
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)	Patent Number	Issue Date (YYYY-MM-DD)
14307166	Continuation of	13762347	2013-02-07	8918127	2014-12-23
Prior Application Status	Patented	Remove			
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)	Patent Number	Issue Date (YYYY-MM-DD)
13762347	Continuation of	12452883	2010-07-07	8401576	2013-03-19
Prior Application Status		Remove			
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)		
12452883	a 371 of international	PCT/AU2008/001043	2008-07-18		
Additional Domestic Benefit/National Stage Data may be generated within this form by selecting the Add button. Add					

Foreign Priority Information:

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

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	RMT-PT001.11
		Application Number	
Title of Invention	RANDOM NUMBER DERIVED MESSAGE TRANSMISSION TO A THIRD PARTY PROVIDER		

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

			Remove
Application Number	Country ⁱ	Filing Date (YYYY-MM-DD)	Access Code ⁱ (if applicable)
2007903979	AU	2007-07-24	
			Remove
Application Number	Country ⁱ	Filing Date (YYYY-MM-DD)	Access Code ⁱ (if applicable)
2007906230	AU	2007-11-13	
Additional Foreign Priority Data may be generated within this form by selecting the Add button.			Add

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

<p>☐ This application (1) claims priority to or the benefit of an application filed before March 16, 2013 and (2) also contains, or contained at any time, a claim to a claimed invention that has an effective filing date on or after March 16, 2013.</p> <p>NOTE: By providing this statement under 37 CFR 1.55 or 1.78, this application, with a filing date on or after March 16, 2013, will be examined under the first inventor to file provisions of the AIA.</p>
--

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	RMT-PT001.11
		Application Number	
Title of Invention	RANDOM NUMBER DERIVED MESSAGE TRANSMISSION TO A THIRD PARTY PROVIDER		

Authorization or Opt-Out of Authorization to Permit Access:

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

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

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

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

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Application Data Sheet 37 CFR 1.76		Attorney Docket Number	RMT-PT001.11
		Application Number	
Title of Invention	RANDOM NUMBER DERIVED MESSAGE TRANSMISSION TO A THIRD PARTY PROVIDER		

Applicant Information:

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Applicant	1	Remove
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If the applicant is the inventor (or the remaining joint inventor or inventors under 37 CFR 1.45), this section should not be completed. The information to be provided in this section is the name and address of the legal representative who is the applicant under 37 CFR 1.43; or the name and address of the assignee, person to whom the inventor is under an obligation to assign the invention, or person who otherwise shows sufficient proprietary interest in the matter who is the applicant under 37 CFR 1.46. If the applicant is an applicant under 37 CFR 1.46 (assignee, person to whom the inventor is obligated to assign, or person who otherwise shows sufficient proprietary interest) together with one or more joint inventors, then the joint inventor or inventors who are also the applicant should be identified in this section.

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☒ Assignee	Legal Representative under 35 U.S.C. 117	Joint Inventor
Person to whom the inventor is obligated to assign.		Person who shows sufficient proprietary interest

If applicant is the legal representative, indicate the authority to file the patent application, the inventor is:

Name of the Deceased or Legally Incapacitated Inventor:

If the Applicant is an Organization check here. ☒

Organization Name	REMBRANDT MESSAGING TECHNOLOGIES II, LP.		
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Address 2	SUITE 400		
City	West Conshohocken	State/Province	PA
Country	US	Postal Code	19428
Phone Number		Fax Number	
Email Address			

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Application Data Sheet 37 CFR 1.76		Attorney Docket Number	RMT-PT001.11
		Application Number	
Title of Invention	RANDOM NUMBER DERIVED MESSAGE TRANSMISSION TO A THIRD PARTY PROVIDER		

Assignee	1		
Complete this section if assignee information, including non-applicant assignee information, is desired to be included on the patent application publication. An assignee-applicant identified in the "Applicant Information" section will appear on the patent application publication as an applicant. For an assignee-applicant, complete this section only if identification as an assignee is also desired on the patent application publication.			
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If the Assignee or Non-Applicant Assignee is an Organization check here.			☒
Organization Name	REMBRANDT MESSAGING TECHNOLOGIES II, LP.		
Mailing Address Information For Assignee including Non-Applicant Assignee:			
Address 1	200 Barr Harbor Dr		
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See 37 CFR 1.4(d) for the manner of making signatures and certifications.

Signature	/Brian P. Gordaychik/		Date (YYYY-MM-DD)	2020-12-08
First Name	Brian P.	Last Name	Gordaychik	Registration Number
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Application Data Sheet 37 CFR 1.76		Attorney Docket Number	RMT-PT001.11
		Application Number	
Title of Invention	RANDOM NUMBER DERIVED MESSAGE TRANSMISSION TO A THIRD PARTY PROVIDER		

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Electronic Patent Application Fee Transmittal				
Application Number:				
Filing Date:				
Title of Invention:		RANDOM NUMBER DERIVED MESSAGE TRANSMISSION TO A THIRD PARTY PROVIDER		
First Named Inventor/Applicant Name:		Graham Merrett		
Filer:		Brian Paul Gordaychik/Shaylynn McNally		
Attorney Docket Number:		RMT-PT001.11		
Filed as Large Entity				
Filing Fees for Track I Prioritized Examination - Nonprovisional Application under 35 USC 111(a)				
Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Basic Filing:				
UTILITY APPLICATION FILING	1011	1	320	320
UTILITY SEARCH FEE	1111	1	700	700
UTILITY EXAMINATION FEE	1311	1	800	800
REQUEST FOR PRIORITIZED EXAMINATION	1817	1	4200	4200
Pages:				
Claims:				
CLAIMS IN EXCESS OF 20	1202	10	100	1000
Miscellaneous-Filing:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
PUBL. FEE- EARLY, VOLUNTARY, OR NORMAL	1504	1	0	0
PROCESSING FEE, EXCEPT PROV. APPLS.	1830	1	140	140
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				
Miscellaneous:				
Total in USD (\$)				7160

Electronic Acknowledgement Receipt

EFS ID:	41309025
Application Number:	17114645
International Application Number:	
Confirmation Number:	8587
Title of Invention:	RANDOM NUMBER DERIVED MESSAGE TRANSMISSION TO A THIRD PARTY PROVIDER
First Named Inventor/Applicant Name:	Graham Merrett
Customer Number:	3624
Filer:	Brian Paul Gordaychik/Shaylynn McNally
Filer Authorized By:	Brian Paul Gordaychik
Attorney Docket Number:	RMT-PT001.11
Receipt Date:	08-DEC-2020
Filing Date:	
Time Stamp:	10:34:27
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	CARD
Payment was successfully received in RAM	\$7160
RAM confirmation Number	E2020B8A35296645
Deposit Account	220493
Authorized User	Shaylynn McNally
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File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1		RMT-PT001_11-Specification__efs.pdf	225451	yes	37
			088252baae2afb716c2ec2f14c00ac640ee7e797		
	Multipart Description/PDF files in .zip description				
	Document Description	Start	End		
	Specification	1	27		
	Claims	28	36		
	Abstract	37	37		
Warnings:					
Information:					
2	Oath or Declaration filed	RMT-PT001_11-Declaration_EFS.pdf	305146	no	2
			49878f68bcd1d73e6b966594af1c20294a35b7d		
Warnings:					
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3	Drawings-only black and white line drawings	RMT-PT001_11_Drawings_efs.pdf	567283	no	7
			1981fc484d513068dec0bff20a2c6b0f3d4cfce8c		
Warnings:					
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4	TrackOne Request	RMT_PT001_11_Track-1_efs.pdf	331535	no	2
			e2e0a3ab79bbcb490f064d826413ccd57faf252d3		
Warnings:					
Information:					
5	Power of Attorney	RMT-PT001-11_POA_efs.pdf	367624	no	2
			a72c3ea0d4e4398aec8c339423217d71db41aeeb		

Warnings:					
Information:					
6	Application Data Sheet	RMT_PT001_11_ADS_efs_2020 1208.pdf	1421145	no	9
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Warnings:					
Information:					
7	Fee Worksheet (SB06)	fee-info.pdf	41569	no	2
			31e383f88a688ef15e5e6fe080c4c9df644a56e3		
Warnings:					
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RANDOM NUMBER DERIVED MESSAGE TRANSMISSION TO A THIRD PARTY
PROVIDER

Cross-Reference To Related Applications

This Application is a continuation of U.S. Patent Application Serial No.16/897,161 filed June 9, 2020, which is a continuation of 16/714,113, filed on December 13, 2019, which is a continuation of U.S. Patent Application No. 15/966,965, filed April 30, 2018, which is a continuation of U.S. Patent Application Serial No. 15/011,000, filed January 29, 2016, which is a continuation of U.S. Patent Application Serial No. 14/307,166, filed on June 17, 2014, which is a continuation of U.S. Patent Application Serial No. 13/762,347, filed on February 7, 2013, which issued as U.S. Patent No. 8,918,127 on December 23, 2014, which is a continuation of U.S. Patent Application Serial No. 12/452,883, filed on July 7, 2010, which issued as U.S. Patent No. 8,401,576 on March 19, 2013, which claims priority to PCT Patent Application No. PCT/AU2008/001043, filed July 18, 2008, that claims priority to Australian Patent Application No. 2007903979, filed July 24, 2007, and Australian Patent Application No. 2007906230, filed November 13, 2007, all of which are incorporated herein by reference.

Technical Field

This invention concerns a messaging service in a wireless communications network.

Background Art

Short Messaging Service (SMS) is a technology for sending and receiving short text messages between mobile users. It was first introduced in the Global System for Mobile Communications (GSM) standards in the 1990s but was subsequently included in other wireless standards such as Code Division Multiple Access Systems (CDMA). Although SMS is extremely popular, one of its biggest drawbacks is that an SMS message can only carry a small amount of data due to limitations imposed by the Mobile Application Part (MAP) protocol of SS7. An SMS message can only contain up to 160 8-

bit alphanumeric or binary characters and any message longer than 160 characters is usually sent in multiple messages.

A Short Messaging Service Centre (SMSC) is responsible for handling the delivery of SMS messages in a wireless communications network. An SMS message sent by a mobile user is first delivered to the user's network SMSC before being routed to the recipient. If the recipient's network is operated by a different provider or employs a different wireless standards, the message may pass through more than one SMSC or SMSC gateway before reaching its final destination. Signalling System 7 (SS7) provides the transport mechanism for SMS traffic.

There are several messaging services that provide an extension to SMS. Enhanced Messaging Service (EMS), which uses existing SMS infrastructure, allows up to 255 SMS messages to be packaged as one EMS message having richer content such as animation, pictures, sounds and formatted text. Unlike SMS and EMS, Multimedia Messaging Service (MMS) messages are delivered using a mobile packet data network. MMS was first introduced in 2.5 generation networks such as GPRS, which provides an Internet Protocol (IP) overlay to the existing GSM networks. A multimedia message may contain images, audio clips and videos.

On the other hand, Mobile Instant Messaging (MIM) technology enables mobile devices to engage in real-time, instant messaging via an IP data network. Users need to register a user name tag or "handle" with an instant messaging service provider to send and receive messages. Many current MIM services also require users to maintain a persistent connection with the Internet during a chat session.

Summary

A mobile wireless device may transmit message content intended for a third party provider, to a server associated with the service, which forwards a message comprising the message content intended for the third party provider, to the third party

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provider. The message forwarded to the third party provider may be derived at least in part from a random number. The message forwarded to the third party provider may not be identical to a message transmitted by the mobile wireless device comprising the message content intended for the third party provider. The message transmitted by the mobile wireless device comprising the message content intended for the third party provider may include at least one information element which is not included in the message forwarded to the third party provider.

Disclosure Of The Invention

In a first aspect, the invention is a method for providing a messaging service on a wireless device in a wireless communications network; the method comprising the steps of:

Retrieving the destination address of an outgoing message on the device.

Verifying whether the destination address is capable of receiving the message via a packet-switched bearer.

If verification is affirmative, then automatically sending the message to the destination address via a packet-switched bearer, but otherwise, automatically sending the message to the destination address via an SMS bearer.

Unlike conventional SMS, EMS and MIM clients, the invention combines existing messaging solutions to offer a single interface for sending and receiving both text and multimedia messages. The automatic bearer selection enables the user to have the widest range of messaging options, including text, voice, video, picture, based on knowledge of the status and capability of the recipient's device.

The SMS bearer may be a conventional GSM SS7 signalling channel. The packet-switched bearer may be a HSDPA, WCDMA, CDMA2000, GPRS or similar data bearer. The packet-switched bearer may also supported by other wireless technologies such as Bluetooth, WiFi, WiMax. Further, the packet-switched bearer may be operated

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by a sender's mobile operator or an independent mobile Internet service provider. Compared with an SMS bearer, a packet-switched data bearer is able to send a message with unlimited size at a higher speed.

The destination address may be a mobile phone number or a numeric "shortcode" or alias representing one or more, or a combination of, phone numbers, email addresses, instant messaging user handles and IP addresses. Therefore, for all users of the messaging service, and unlike conventional MIM clients, the invention utilises a user's mobile phone number as the identifier of the user, and does not require the user to register a user name, tag or handle, thus providing a single number for message sending.

A message client running on the device may programmatically and dynamically construct an outgoing message in the correct syntax given the user's preferences and given the dynamic requirements of the message server for a particular service.

The message client may interpret incoming SMS or incoming messages from the message server that are identified in their contents as being requirements for the dynamic construction of a message, when the user views the message.

Alternatively, the message client may interpret incoming SMS or incoming messages from the message server that are identified in their contents as being requirements for the dynamic construction of a message, and store the requirements for the dynamic construction of a message, such that they may be invoked by selecting a dynamic menu option.

The requirements may be set out in a structured format using XML such that the message client shall, when a user opens a message containing requirements for the dynamic construction of a message, or when a user selects a dynamic menu:

Present the user with options to choose from; and

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For each option, know the intended destination and bearer of the message; and

Prompt the user for input or to select a file to be sent with the constructed message; and

Construct a message of the correct syntax based on the user's choices and input.

The method may further comprise the step of connecting to a message server before verifying the destination address. If connection to the message server is not available, the invention may support several configuration methods in order to configure the mobile device so as to be able to establish a connection to the message server.

Firstly, the method may comprise the step of retrieving connection parameters and displaying the retrieved parameters on the mobile device if connection to a message server is not available. A mobile user may then use the retrieved parameters to manually configure the handset before retrying to connect to the message server.

Besides manual configuration, the invention may support manual and automatic over-the-air (OTA) programming. The method may further comprise the step of displaying a link for a sender to request an OTA configuration message if connection to the message server is not available. For example, a user may then access a website to request a configuration message to be sent to the user's mobile device.

The method may further comprise the step of retrieving connection parameters, automatically creating an OTA configuration message based on the retrieved parameters and sending the generated configuration message from the mobile device to the same mobile device. Using such automatic OTA configuration, users do not have to manually change the settings on their mobile device to establish a connection with the message server. The OTA configuration message may be a binary SMS.

The step of verifying the destination address may involve sending an address verification request to a message server and then receiving a notification from the message server specifying whether the destination address is capable of receiving the message via a packet-switched bearer.

The destination address may be capable of receiving the message via a packet-switched bearer if the address is on a subscriber address list. The subscriber address list may be a list of destination addresses that subscribes to the messaging service. The subscriber address list may be maintained by the message server.

The destination address may be capable of receiving the message using a packet-switched bearer if the address is on the subscriber address list and has an active status. For example, the recipient is inactive if the length of the message queue of the destination address exceeds a maximum allowable length.

The method may further comprise the step of automatically providing options to add one or more attachments to the outgoing message before sending the message if a packet-switched bearer is selected. The attachment may be a text, voice, video or picture file. On the other hand, an outgoing message that is sent using an SMS bearer can only be either an SMS or EMS message and not have attachments.

Using the invention, a sender may optimally add attachments to an outgoing message depending on the capability of a recipient's mobile device. For example, a user may attach a voice or video message a text message if the recipient is able to receive and play the attachment. Further, the invention uses a push model to deliver a voicemail to a mobile user without the need of retrieval.

The method may further comprise the step of formatting the outgoing message according to the mode of delivery before sending the message. If the message is sent via a packet-switched data bearer, the message may be formatted as an XML ASCII string.

The method may further comprise the step of appending a system message to the outgoing message if an SMS bearer is selected.

The system message may comprise an invitation to add the destination address to a subscriber address list if the destination address is not on the list. Otherwise, if the destination address is on the subscriber address list but has an inactive status, the system message may comprise an invitation to retrieve messages in the message queue of the destination address.

By sending an invitation to non-subscribers to add their destination address to the subscriber address list, new users may subscribe to the messaging service without having to actively source how to obtain the service. This viral, peer-to-peer invitation method also does not require central monitoring nor generate additional traffic since an invitation is appended to an outgoing message.

The method may further comprise the step of notifying the recipient, if the recipient is on the subscriber list, when either a message has been received (if the recipient is connected to the message server), or when a message is queued but not yet delivered (if the recipient is not connected to the message server). The notification method may be a single ring to the recipient's mobile device. A notification message may also be sent to the sender of the message.

The method may further comprise queuing an outgoing message for later delivery if the message is undelivered. For example, a message cannot be delivered if the destination address is on the subscriber address list, but the recipient is not, at the time of sending, connected to the message server by a packet-switched bearer.

In another aspect, the invention is a mobile device programmed to perform the method. In a further aspect, the invention is a software program to implement the method.

Brief Description of the Drawings

An example of the invention will now be described with reference to the accompanying drawings, in which:

FIG. 1 is a diagram of a messaging system.

FIG. 2A is the user interface on a sender's mobile device.

FIG. 2B is the user interface on a recipient's mobile device.

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FIG. 3 is a flowchart of the routine performed by a message client.

FIG. 4 is a flowchart of the routine performed by a message client to establish a connection with a message server.

FIG. 5 is a flowchart of the address verification routine performed by a message server.

FIG. 6A is a diagram of the architecture of a message client.

FIG. 6B is an exemplary message format.

FIG. 6C is a diagram of a TCP/IP protocol model used by a message client.

FIG. 7 is the user interface on a sender's mobile device during a chat session.

Best Modes of the Invention

Referring first to FIG. 1, the messaging system 100 comprises a message server 170 in communication with network users 110, 120 and 125 via the Internet 160 and base stations 130, 150, 180 and 190. Base stations 130 and 150 are typical based stations in a GSM, CDMA, 3G, 3.5G or similar network that supports a HSDPA, WCDMA, CDMA2000, GPRS or similar data bearer and are connected to an SMSC via Core Network 140.

Network users 110, 120 and 125 may be part of a wireless personal area network (WPAN), a wireless local area network (WLAN) or a wireless wide area network (WWAN). Base stations 180 and 190 are wireless Internet base stations operated by an independent wireless service provider. For example, the users may access the wireless Internet using technologies such as Bluetooth, ZigBee or mesh networking in a WPAN; WiFi in a WLAN or WiMax in a WWAN.

In this example it is assumed that a first user 110 ("the sender") is sending a message to a second user 120 ("the recipient"). The message contains the phrase "Hi

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there!" as well as a photo and a voicemail as attachments. Referring now to FIG. 2A, a message client 114 runs on the mobile device 112 and is responsible for choosing the mode of delivery of an outgoing message.

To use the invention, the message client 114 needs to be activated by the sender 110. However, the message client 114 may be also activated automatically when the handset is switched on if such feature is supported by the handset's operating system. Having activated the message client 114, the sender 110 then selects or enters a destination number. The message client 114 then decides on how the message can be sent.

The recipient 120 may be on a network operated by the same or a different service provider. The sender and the recipient are each associated with an address. The destination address is either a mobile phone number or a numeric "shortcode" or "channel", which is an alias representing one or more phone number, email address or instant message handle. For example, certain number ranges may be controlled by the messaging server (e.g. 1 800 xxxxxx), some under users' control as destinations as aliases for a group of numbers and addresses (e.g. 1 801 xxxxxx), and some for accessing content services (e.g. 1 900 xxxxxx). Shortcodes are unique and private to a user, hence the same numeric shortcode may be used by multiple users.

Shortcodes are created by users and maintained by message server 170. For example, a user creates a shortcode by sending a message with the following content to the message server 170:

Add channel20 andrew@messmo.com,
robert@yahoo.com, 0423789080, 98765432@jabber.org.

The shortcode 20 is an alias for a group comprising two email addresses, one mobile number and an instant message handle. For example, to send a message to the shortcode created, the destination address will be set to 1801 20.

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The syntax of messages in the example above is strict, however the user is not limited in their use of services by limits in their own knowledge of the message syntax.

The message client 114 is able to programmatically and dynamically construct an outgoing message in the correct syntax given the user's preferences and given the dynamic requirements of the message server 170 for a particular service.

The message client 114 interprets incoming SMS or incoming messages from the message server 170 that are identified in their contents as being requirements for the dynamic construction of a message. The interpretation can occur either when the user views the message (for example a message titled "Click to create a Channel"), and/or the message client may interpret the incoming SMS, or incoming messages from the message server 170, and store the requirements for the dynamic construction of a message, such that they may be invoked by selecting a dynamic menu option.

The requirements are set out in a structured format using XML such that the message client 114 shall, either when a user opens a message containing requirements for the dynamic construction of a message, or selects a dynamic menu:

- Present the user with options to choose from; and

- For each option, know the intended destination and bearer of the message; and

- Prompt the user for input or to select a file to be sent with the constructed message; and

- Construct a message of the correct syntax based on the user's choices and input. If the message contained requirements for the dynamic construction of a message, where those requirements are by way of example set out as:

```

<MessageConstructorRequirements>
  <MCTitle>Shortcode</ MCTitle >
  <Option>
    <OptionTitle>Subscribe</ OptionTitle>
    <Bearer>SMS</Bearer>
    <Destination>1800</Destination>
    <OutputToken DataType='String' InputMethod='Constant'
Count='1'>Add Channel</OutputToken>
    <OutputToken DataType='Number' InputMethod='Input'
Count='1'>Channel</OutputToken>
    <OutputToken DataType='String' InputMethod='Input'
Count='4'>Destination</OutputToken>
  </Option>
</I
MessageConstructorRequirem
ents >

```

The message client 114 would present the user with a message titled 'Shortcode', where the message client would:

- Present the user with the option 'Subscribe'; and if this option is selected
- Prompt the user for one shortcode eg. User inputs 20; and
- Prompt the user for four destinations eg. User inputs andrew@messmo.com, robert@yahoo.com, 0423789080, 98765432@jabber.org; and
- Construct a message eg. 'Add Channel20 andrew@messmo.com, robert@yahoo.com, 0423789080, 98765432@jabber.org' to be sent to 1900 via SMS bearer.

Thus enabling the benefit to the user of the use of a service where they otherwise may have been unfamiliar with, or unwilling to input, the strict syntax of the message required for the service.

When a message is sent to a shortcode, the message can be sent either as a conventional SMS or EMS message using a conventional SMS bearer or a packet-switched data bearer. If a SMS bearer is used, the message will be sent via a GSM or GPRS signalling channel to Core Network 140, SMSC 145, base station 150 before finally reaching recipient 120. If an SMS bearer is used the attachments such as the photo and voicemail will not be sent.

If a packet-switched data bearer is used, the message client has a choice of sending the message using a packet-switched bearer supported by the mobile operator's or a third party's network. For example, in a GSM system with General Packet Radio Service (GPRS) overlay, an SMS bearer may be an SS7 signalling channel while a packet-switched data bearer may be a shared transmission channel that combines multiple timeslots in a GSM TDMA frame. The packet-switched data bearer may also be a Bluetooth, WiFi, WiMax or any other WPAN, WLAN, or WWAN wireless data transfer protocol.

Referring now to FIG. 3, the client 114 first checks whether the sender 110 is connected to the Internet 160 and message server 170; see step 205. As shown in FIG. 1, the sender 110 may be connected to the message server 170 via a mobile operator's data network (base stations 130) or a network provided by an independent mobile Internet service provider (base station 180).

The step of connecting to the message server 170 (step 205) will now be explained with reference to FIG. 4. The client 117 first checks whether connection to the message server 170 is available. If the connection is not available, the client 117 displays options for the sender 110 to configure the handset such that connection to the message server

170 can be established; see step 265.

The client 117 supports three configuration methods. Firstly, manual configuration may be used; see steps 270, 272 and 274. In this case, the client 117 first retrieves information specific to the handset and the mobile Internet service provider. As mentioned, the mobile Internet service provider may be a mobile operator or an independent provider. The client 117 then displays the retrieved information such that the sender 110 can configure the handset manually; step 274.

Alternatively, if the sender's mobile device is capable of receiving and processing OTA messages, the client 117 may provide a link to a website that solicits OTA configuration requests; steps 280 and 282. The website may be operated by the message server 170 or a third party and accessed via a PC, WAP connection from the sender's mobile device or other means. Upon receiving the OTA configuration message, the sender's mobile device will ask the sender to accept the changes to its mobile Internet access settings according to the configuration message; step 298. If the changes are accepted, the client 117 then retries to connect to the message server 170; step 295.

Besides manual configuration and manual OTA configuration requests, the client 117 is capable of performing self-configuration; see steps 290, 292 and 294. Assuming that the client 117 is aware of the specific parameters necessary to configure the sender's mobile device to access the mobile Internet, the client 117 first creates an OTA configuration message based on the parameters. The client 117 then sends the OTA message to the sender's handset (same device). For example, the message may be sent as an OTA binary SMS. Upon receiving the OTA configuration message, the sender's mobile device asks the sender to accept the changes to its mobile Internet access settings according to the configuration message; step 298. Similarly, the client 117 then retries to connect to the message server 170 when under the new settings; step 295.

The above configuration steps may be repeated until either the message server

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170 is connected or the user has abandoned the configuration in step 265. In this case, that is the connection to the message server 170 is not available, the client 117 will select an SMS bearer as the mode of delivering the outgoing message and proceeds to format the message in step 240. Note that besides configuring the mobile Internet access settings of a mobile device, the client 117 may generate OTA messages to configure other settings such as email, WAP, MMS and video streaming.

If the sender has access to the message server 170, the client 114 then retrieves from the message without reference to the message server the destination address of the outgoing message 220; see step 210. The client then sends a verification request to the message server 170 via base station 130 or 180 and the Internet 160; step 215.

Upon receiving an address verification request, the message server 170 performs the method shown in FIG. 5. The message server 170 first checks whether the destination address is on a list of subscribing addresses; step 320. If the destination address is not known to the message server 170, the mode of delivery will be set to an SMS bearer; step 350.

If the destination is on the list of subscribing addresses, the message server 170 proceeds to check the status of the recipient, that is whether the destination message queue length has exceeded a predetermined maximum length; 330. If the recipient has a long inactive queue, the message server 170 will notify the message client 114 to send the message using an SMS bearer; see step 350. Otherwise, the mode of delivery is set to a packet-switched bearer; see step 360 in FIG. 5.

Referring to FIG. 3 again, the message client 114 at the sender 110 provides options for format and attachment of the outgoing message based on the mode of delivery; steps 224, 226, 230 and 240. The mode of delivery, using information about the recipient's handset stored in the message server, provides an indication of the capabilities of the recipient's handset and the type of message that can be received by the recipient's 120. If the recipient 120 is an active user, the full range of the recipient's

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capabilities is assumed. However, if the recipient 120 is an inactive or past subscriber, the message server's 170 knowledge of the recipient's capabilities may be outdated if the recipient has changed its handset. The recipient 120 may then be invited to update its information.

The message client 114 then intelligently advises the sender 110 whether the recipient 120 is able to read attachments or non-text messages. For example, if the mode of delivery is a packet-switched bearer, the sender 110 is offered with the "ATTACH" option to add voice, picture or video attachments to the message; see FIG. 2A and steps 224 and 226 in FIG. 3.

If the mode of delivery is an SMS bearer, the "ATTACH" option will be disabled. Further, depending on configurable settings on the sender's mobile device, the client 117 also appends a system message to the outgoing message in step 245. If the destination address is not on the list of subscribing addresses, an invitation to download the client will be added to the outgoing SMS or EMS. For example, the invitation may read:

"Go to www.clientdownload.com to download <name of message client>".

The message client 114 can then be downloaded to the recipient's mobile device 120. Then upon starting the message client, the message client will generate a unique authentication identifier, either randomly or derived from the mobile devices hardware identification or generated by the message server. The message client will then initiate a connection to the message server and communicate the authentication identifier. The message client will in parallel send a SMS containing the authentication identifier to a SMS gateway service. The SMS gateway service then sends the message, including the originating phone number and the body of the message containing the authentication identifier, to the message server via HTTP, SMTP, SMPP or a similar protocol.

Upon receipt of the details of a SMS, the message server will determine the originating phone number of the mobile device from the details of the SMS, and hence add the new address (originating phone number) to the list of subscribing addresses. By matching the authentication identifier, either the message server will send the message client confirmation that the mobile device and user has been authenticated, or the message client will initiate the action and request the same confirmation from the message server. This authentication method allows new users to be authenticated and to subscribe to the messaging service via one SMS without requiring any registration or data entry.

If the destination address is on the list of subscribing addresses but the recipient 120 is inactive, a message to remind the recipient 120 to connect to the message server 170 will be appended to the outgoing SMS or EMS. For example, the system message may read:

"You have 50 unread messages on <name of message client>." Returning to the sending mobile device 110, if the mode of delivery is a packet-switched bearer, the message client manages the delivery of the message similar to a MIM client such as Jabber. An exemplary architecture of the message client is shown in FIG. 6A, where the message client may be a Java 2, Mobile Edition (J2ME) program installed on a mobile device. The formatted message is sent as an XML ASCII string via a TCP/IP socket to the message server or a HTTP post, an example of which is shown in FIG. 6B. The message contains a text phrase "Hi there!" in the body and two attachments. A photo attachment is defined between <photo> and </photo> and a voicemail is defined between <voicemail> and </voicemail>.

FIG. 6C illustrates the five-layer TCP/IP protocol model used by the message client. GPRS, 3G, 3.5G or other wireless protocols such as Bluetooth, WiFi and Wimax are used in the data link layer to deliver the message from the mobile device to the wireless communications network, IP is used in the network layer to deliver the packet from the sender to the recipient, UDP and TCP form the transport layer and HTTP,

WAP and XML are used in the application and presentation layers.

FIG. 2B shows the user interface of the recipient 120 when a message is received. The recipient 120 may receive a notification when the message has been successfully received as the recipient while being connected to the messaging server, may be using another function of the mobile device. The notification may be a single ring of the recipient's mobile device.

If the destination address is a shortcode, steps 320 and 330 in FIG. 5 are repeated for each phone number, email address and user name tag represented by the shortcode. If not all addresses in the shortcode are capable of receiving the message via a packet-switched data bearer, the reply by message server 170 may be an array of binary answers. For example, if a shortcode represents three addresses and only the first has installed the message client, the mode of delivery is set to $m_1m_2m_3=100$, where 1 represents a packet-switched bearer and 0 represents an SMS bearer.

A delivery confirmation message may also be sent to the sender 110 by the message server 170 if the message is sent using a packet-switched bearer. The message client 114 maintains a copy of recent messages sent by a user, for example, for a limited time. If a message is unsuccessfully delivered, it will be queued for later delivery. For example, a message cannot be delivered if the recipient 120 is not connected to the message server 170 when the message is sent. In this case the recipient 120 may receive a notification that a message is queued for later delivery. The notification may be a single ring of the recipient's mobile device, generated by the message server 170, but using a different originating number from that used for the notification when the message has been delivered, so as to enable the user to optionally utilize mobile device features such as distinct ringtones mapped to sending numbers.

A sender 110 and a recipient 120 may send and receive multiple messages during a chat session. The user interface may be similar to that of a desktop instant messaging

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program. For example, an exemplary user interface of sender 110 is shown in FIG. 7. A left arrow indicates a message sent by the sender while a right arrow represents a received message. Depending on configurable user preferences, the recipient 120 with phone number 1234 may choose to have his or her presence known to the sender 110; see 116 in FIG. 7. Using the presence information, the sender 110 may then stop sending new messages to the recipient 120 if the latter has gone offline.

Besides performing address verification, the message server 170 also maintains user authentication. Authentication is simple and does not require a user to create a user name tag like existing MIM servers. Instead, the user's mobile phone number is the default identifier. Authentication adds the mobile phone number to the subscriber address list.

Referring to FIG. 1 again, the message server 170 receives each message that is sent using a packet switched bearer. Each message is in an XML format, and the message server parses the message to determine the destination address.

The message server 170 is also in communication with third-party content providers 175 over the Internet 180. When the message server identifies a destination address corresponding to a third party content provider, it automatically sends the message to the third party. The third party may, for example depending on the presence of keywords, send additional information related to the keywords to the sender 110. However, a user may disable this feature.

For example, if the message contains the name of a certain brand, BUYME, information concerning where to buy the product or its latest promotion will be retrieved from the third party content provider in communication with the message server. In this case, depending on the capability of the recipient's mobile device, the information may be sent as a conventional SMS or as a text message via a packet-switched bearer, with optionally one or more attachments.

User privacy may be protected by not revealing a user's phone number to a third party without the consent of the user. For example, a user may send a query to a third party content provider 175 to ask about the weather forecast in a particular location via the message server 170. To hide a user's identity, the message server may dynamically create a random number that maps to the user's actual mobile number and passes the query to the third party content provider 175. Further, this mapping may be dynamic, not static, to ensure that the third party is not able to determine information about the general behavior of the users.

Similar to user-to-user messages, the type of advertising and marketing message that is sent to a user also depends on the capabilities of the user's handset. Therefore since the message server is aware of the capabilities of user's handsets, as user handsets are upgraded, the message server 170 is able to target those users with enhanced, multimedia message content.

It will be appreciated by persons skilled in the art that numerous variations and/or modifications may be made to the invention as shown in the specific embodiments without departing from the spirit or scope of the invention as broadly described. For instance, the current application outlines how a user, when using a message client, will be prompted to use an SMS, if the recipient is not a user of the message service. The existing context of this is that the user is initiating the message. The functionality can be extended to the situation where a message is sent using the message client with the goal of prompting the user to send a response SMS. This can be useful in generating SMS traffic from third parties by sending one message that prompted the recipients to select one or more voting buttons each of which causes an SMS to be sent to a specific premium number.

Conversely the same concept works well for a community of users of a message client who do not wish to use premium numbers. The entire community can be polled. Each receives an indication to select a voting button, and the selections each cause a

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message with predetermined text to be sent to a predetermined recipient. This minimizes the event of false responses that cannot be counted.

The present embodiments are, therefore, to be considered in all respects as illustrative and not restrictive.

CLAIMS:

1. A mobile wireless device that transmits (i) at least some messages to at least some recipient devices that correspond to subscribers of a service for receiving packet-switched messages, wherein the service includes a server that receives packet-switched messages transmitted via the service to recipient devices that correspond to subscribers of the service, and (ii) at least some messages over a cellular network to at least some recipient devices that do not correspond to subscribers of the service, the mobile wireless device comprising:

a wireless local area network (WLAN) transceiver that transmits messages from the mobile wireless device to a WLAN base station and subsequently over the Internet to the server that receives packet-switched messages transmitted via the service to recipient devices that correspond to subscribers of the service, before delivery to a recipient device;

a cellular transceiver that transmits messages from the mobile wireless device to a cellular base station before delivery to a recipient device, wherein the cellular transceiver and the cellular base station communicate using a radio communications protocol that supports transmission of multimedia messages comprising at least one of images, audio clips or videos;

wherein the mobile wireless device connects via the WLAN base station to the server that receives packet-switched messages transmitted via the service to recipient devices that correspond to subscribers of the service;

wherein the mobile wireless device connects via the cellular base station to the server that receives packet-switched messages transmitted via the service to recipient

devices that correspond to subscribers of the service;

wherein the mobile wireless device transmits packet-switched messages using a packet-switched bearer supported by the WLAN base station and transmits packet-switched messages using a packet-switched bearer supported by the cellular base station; and

a message client that retrieves, from a message, information corresponding to at least one mobile phone number of a wireless device of an addressed recipient;

wherein the WLAN transceiver:

- (i) transmits a request, including at least information corresponding to the mobile phone number of the wireless device of the addressed recipient, via the WLAN base station and the Internet, to a server that maintains a subscriber list, to determine whether the wireless device of the addressed recipient corresponds to a subscriber of the service; and
- (ii) receives a response from the server that maintains the subscriber list, via the WLAN base station and the Internet, indicating whether the wireless device of the addressed recipient corresponds to a subscriber of the service, wherein a negative response indicates that the wireless device of the addressed recipient is not a subscriber of the service;

wherein the mobile wireless device selects a packet-switched bearer for transmission of a message to the addressed recipient via the server that receives packet-switched messages transmitted via the service to recipient devices that

correspond to subscribers of the service, based at least in part on the response indicating that the addressed recipient corresponds to a subscriber of the service;

wherein if a packet-switched bearer is selected for message transmission via the server that receives packet-switched messages transmitted via the service to recipient devices that correspond to subscribers of the service, the mobile wireless device chooses for message transmission the packet-switched bearer supported by the WLAN base station or the packet-switched bearer supported by the cellular base station;

wherein the mobile wireless device transmits a message to the addressed recipient via the cellular base station, at least where the packet-switched bearer supported by the WLAN base station is not chosen for message transmission;

wherein the mobile wireless device transmits a message to the addressed recipient via the cellular base station, and without traversing the server that receives packet-switched messages transmitted via the service to recipient devices that correspond to subscribers of the service, before delivery to the addressed recipient, based at least in part on the response failing to indicate that the addressed recipient corresponds to a subscriber of the service;

wherein the mobile wireless device transmits a message limited to one or more binary-encoded characters to the addressed recipient via the cellular base station and through a short message service center (SMSC) before delivery to the addressed recipient, based at least in part on the response failing to indicate that the addressed recipient corresponds to a subscriber of the service;

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wherein the mobile wireless device transmits message content intended for a third party provider, to a server associated with the service, which forwards a message comprising the message content intended for the third party provider, to the third party provider, wherein the message forwarded to the third party provider is derived at least in part from a random number.

2. The mobile wireless device of claim 1, wherein the mobile wireless device selects a packet-switched bearer for transmission of a message to the addressed recipient via the server that receives packet-switched messages transmitted via the service to recipient devices that correspond to subscribers of the service, based at least in part on the response indicating that the addressed recipient corresponds to a subscriber of the service and based at least in part upon a status indicating that an undelivered message parameter has not been exceeded.

3. The mobile wireless device of claim 1, wherein the mobile wireless device transmits a message limited to one or more binary-encoded characters to the addressed recipient via the cellular base station and through a short message service center (SMSC) before delivery to the addressed recipient, based at least in part on the response indicating that the addressed recipient corresponds to a subscriber of the service and based at least in part on a status indicating that an undelivered message parameter has been exceeded.

4. The mobile wireless device of claim 1, wherein the message forwarded to

the third party provider is not identical to a message transmitted by the mobile wireless device comprising the message content intended for the third party provider.

5. The mobile wireless device of claim 1, wherein the message limited to one or more binary-encoded characters is further limited to less than a maximum allowable number of binary-encoded characters.

6. The mobile wireless device of claim 1, wherein a message to the addressed recipient is queued for later delivery using the service if the wireless device of the addressed recipient corresponds to a subscriber of the service, and the wireless device of the addressed recipient, at a time of message transmission, is unable to connect to the server that receives packet-switched messages transmitted via the service to recipient devices that correspond to subscribers of the service.

7. The mobile wireless device of claim 4, wherein the message transmitted by the mobile wireless device comprising the message content intended for the third party provider includes at least one information element which is not included in the message forwarded to the third party provider.

8. The mobile wireless device of claim 7, wherein the information element is a phone number of the mobile wireless device.

9. The mobile wireless device of claim 1, further comprising:

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a display that displays presence information associated with the wireless device of the addressed recipient;

wherein the mobile wireless device receives the presence information associated with the wireless device of the addressed recipient if the wireless device of the addressed recipient corresponds to a subscriber of the service.

10. The mobile wireless device of claim 1,

wherein the mobile wireless device receives an over the air (OTA) configuration message which includes at least one parameter for establishing a server connection with the server associated with the service which forwards the message comprising the message content intended for the third party provider.

11. The mobile wireless device of claim 1, wherein the request is encapsulated in hypertext transfer protocol (HTTP) and a message to the addressed recipient is encapsulated in HTTP;

wherein the server that receives packet-switched messages transmitted via the service to recipient devices that correspond to subscribers of the service is located outside of the cellular network;

wherein the server that maintains the subscriber list is located outside of the cellular network.

12. The mobile wireless device of claim 1, wherein the message client retrieves information representative of at least one electronic mail (email) address of another

wireless device of another recipient; wherein the addressed recipient and the another recipient are each a subscriber of the service.

13. The mobile wireless device of claim 12, wherein the WLAN transceiver transmits at least one message from the mobile wireless device to the wireless device of the addressed recipient and to the wireless device of the another recipient.

14. The mobile wireless device of claim 1, wherein the wireless device transmits a short message service (SMS) message for authentication to the service.

15. The mobile wireless device of claim 1, wherein the mobile wireless device is authenticated to the service via SMS;

wherein the server that receives packet-switched messages transmitted via the service to recipient devices that correspond to subscribers of the service is located outside of the cellular network;

wherein the server that maintains the subscriber list is located outside of the cellular network.

16. The mobile wireless device of claim 1, further comprising:

wherein the mobile wireless device registers a user name tag or handle with the service, wherein the mobile wireless device transmits an authentication identifier for authentication to the service.

17. The mobile wireless device of claim 1, wherein the mobile wireless device receives an indication that the wireless device of the addressed recipient is authenticated to the service.

18. The mobile wireless device of claim 1, wherein the mobile wireless device is not enabled to transmit messages via the server that receives packet-switched messages transmitted via the service to recipient devices that correspond to subscribers of the service before authentication of the mobile wireless device to the service.

19. The mobile wireless device of claim 1, wherein the mobile wireless device transmits location information.

20. The mobile wireless device of claim 1, wherein the mobile wireless device is authenticated to the service, via a mobile phone number of the mobile wireless device, prior to receiving the response.

21. The mobile wireless device of claim 1, further comprising:
a single interface for transmission of and reception of both text and multimedia messages;

wherein the single interface provides an option to add a voice attachment for subsequent playback by the wireless device of the addressed recipient.

22. The mobile wireless device of claim 19, wherein the message forwarded to

the third party provider is derived at least in part from the location information.

23. The mobile wireless device of claim 1, wherein the message limited to one or more binary-encoded characters is a signaling system 7 (SS7) message.

24. The mobile wireless device of claim 1, wherein the message client provides an option to add one or more attachments based at least in part on the response.

25. The mobile wireless device of claim 1, wherein a negative response is consistent with the addressed recipient being unknown to the server that maintains the subscriber list.

26. The mobile wireless device of claim 1, wherein the random number is generated by the server associated with the service which forwards the message comprising the message content intended for the third party provider.

27. The mobile wireless device of claim 1, wherein the multimedia messages comprising at least one of images, audio clips or videos are multimedia message service (MMS) messages.

28. A system comprising:

a mobile wireless device; and

a server that receives message content intended for a third party provider from

the mobile wireless device;

wherein the mobile wireless device transmits (i) at least some messages to at least some recipient devices that correspond to subscribers of a service for receiving packet-switched messages, wherein the service includes a server that receives packet-switched messages transmitted via the service to recipient devices that correspond to subscribers of the service, and (ii) at least some messages over a cellular network to at least some recipient devices that do not correspond to subscribers of the service;

wherein the mobile wireless device comprises a wireless local area network (WLAN) transceiver that transmits messages from the mobile wireless device to a WLAN base station and subsequently over the Internet to the server that receives packet-switched messages transmitted via the service to recipient devices that correspond to subscribers of the service, before delivery to a recipient device;

wherein the mobile wireless device comprises a cellular transceiver that transmits messages from the mobile wireless device to a cellular base station before delivery to a recipient device, wherein the cellular transceiver and the cellular base station communicate using a radio communications protocol that supports transmission of multimedia messages comprising at least one of images, audio clips or videos;

wherein the mobile wireless device connects via the WLAN base station to the server that receives packet-switched messages transmitted via the service to recipient devices that correspond to subscribers of the service;

wherein the mobile wireless device connects via the cellular base station to the server that receives packet-switched messages transmitted via the service to recipient

devices that correspond to subscribers of the service;

wherein the mobile wireless device transmits packet-switched messages using a packet-switched bearer supported by the WLAN base station and transmits packet-switched messages using a packet-switched bearer supported by the cellular base station; and

wherein the mobile wireless device comprises a message client that retrieves, from a message, address information consisting of only one mobile phone number of a wireless device of an addressed recipient, during composition of the message;

wherein the WLAN transceiver:

- (i) transmits a request, including at least information corresponding to the mobile phone number of the wireless device of the addressed recipient, via the WLAN base station and the Internet, to a server that maintains a subscriber list, to determine whether the wireless device of the addressed recipient corresponds to a subscriber of the service; and
- (ii) receives a response from the server that maintains the subscriber list, via the WLAN base station and the Internet, indicating whether the wireless device of the addressed recipient corresponds to a subscriber of the service, wherein a negative response indicates that the wireless device of the addressed recipient is not a subscriber of the service;

wherein the mobile wireless device selects a packet-switched bearer for transmission of a message to the addressed recipient via the server that receives

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packet-switched messages transmitted via the service to recipient devices that correspond to subscribers of the service, based at least in part on the response indicating that the addressed recipient corresponds to a subscriber of the service and based at least in part upon a status indicating that an undelivered message parameter has not been exceeded;

wherein if a packet-switched bearer is selected for message transmission via the server that receives packet-switched messages transmitted via the service to recipient devices that correspond to subscribers of the service, the mobile wireless device chooses for message transmission the packet-switched bearer supported by the WLAN base station or the packet-switched bearer supported by the cellular base station;

wherein if the mobile wireless device chooses the packet-switched bearer supported by the WLAN base station for message transmission, the mobile wireless device performs message transmission to the server that receives packet-switched messages transmitted via the service to recipient devices that correspond to subscribers of the service;

wherein the mobile wireless device transmits a message to the addressed recipient via the cellular base station, at least where the packet-switched bearer supported by the WLAN base station is not chosen for message transmission;

wherein the mobile wireless device transmits a message to the addressed recipient via the cellular base station, and without traversing the server that receives packet-switched messages transmitted via the service to recipient devices that

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correspond to subscribers of the service, before delivery to the addressed recipient, based at least in part on the response failing to indicate that the addressed recipient corresponds to a subscriber;

wherein the mobile wireless device transmits a message limited to one or more binary-encoded characters to the addressed recipient via the cellular base station and through a short message service center (SMSC) before delivery to the addressed recipient, based at least in part on the response indicating that the addressed recipient corresponds to a subscriber of the service and based at least in part on a status indicating that an undelivered message parameter has been exceeded;

wherein a message to the addressed recipient is queued for later delivery using the service if the wireless device of the addressed recipient corresponds to a subscriber of the service having a status indicating that an undelivered message parameter has not been exceeded, and the wireless device of the addressed recipient, at a time of message transmission, is unable to connect to the server that receives packet-switched messages transmitted via the service to recipient devices that correspond to subscribers of the service;

wherein the server that receives the message content intended for the third party provider forwards a message comprising the message content intended for the third party provider, to the third party provider, wherein the message forwarded to the third party provider is derived at least in part from a random number.

29. A method comprising:

receiving, from a first mobile wireless device via the Internet, a subscription

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message for subscribing the first mobile wireless device to a service for receiving packet-switched messages other than short message service (SMS) messages, enhanced messaging service (EMS) messages and multimedia message service (MMS) messages;

storing information indicating that a first mobile phone number of the first mobile wireless device corresponds to a subscriber of the service, in a subscriber data store;

receiving a first request, from a second mobile wireless device, the first request including at least information corresponding to the first mobile phone number of the first mobile wireless device;

determining, via the subscriber data store, in response to receiving the first request, that the first mobile phone number of the first mobile wireless device corresponds to a subscriber of the service;

transmitting a first response, to the second mobile wireless device, indicating that the first mobile wireless device corresponds to a subscriber of the service;

receiving a second request, from the second mobile wireless device, the second request including at least information corresponding to another phone number; and

transmitting a second response, to the second mobile wireless device, indicating that the another phone number does not correspond to a subscriber of the service;

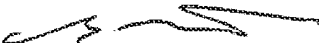
wherein a server associated with the service receives message content intended for a third party provider, from the second mobile wireless device, and forwards a message comprising the message content intended for the third party provider, to the third party provider, wherein the message forwarded to the third party provider is derived at least in part from a random number.

30. The method of claim 29, wherein the server associated with the service does not receive message content intended for the third party provider from another mobile wireless device associated with the another phone number.

ABSTRACT

A mobile wireless device may transmit message content intended for a third party provider, to a server associated with the service, which forwards a message comprising the message content intended for the third party provider, to the third party provider. The message forwarded to the third party provider may be derived at least in part from a random number. The message forwarded to the third party provider may not be identical to a message transmitted by the mobile wireless device comprising the message content intended for the third party provider. The message transmitted by the mobile wireless device comprising the message content intended for the third party provider may include at least one information element which is not included in the message forwarded to the third party provider.

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

Title of Invention	MESSAGING SERVICES IN A WIRELESS COMMUNICATIONS NETWORK
<p>As the below named inventor, I hereby declare that:</p> <p>This declaration is directed to: ☐ The attached application, or ☒ United States application or PCT international application number <u>14/307,166</u> filed on <u>June 17, 2014</u></p> <p>The above-identified application was made or authorized to be made by me.</p> <p>I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.</p> <p>I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.</p> <p style="text-align: center;">WARNING:</p> <p>Petitioner/applicant is cautioned to avoid submitting personal information in documents filed in a patent application that may contribute to identity theft. Personal information such as social security numbers, bank account numbers, or credit card numbers (other than a check or credit card authorization form PTO-2038 submitted for payment purposes) is never required by the USPTO to support a petition or an application. If this type of personal information is included in documents submitted to the USPTO, petitioners/applicants should consider redacting such personal information from the documents before submitting them to the USPTO. Petitioner/applicant is advised that the record of a patent application is available to the public after publication of the application (unless a non-publication request in compliance with 37 CFR 1.213(a) is made in the application) or issuance of a patent. Furthermore, the record from an abandoned application may also be available to the public if the application is referenced in a published application or an issued patent (see 37 CFR 1.14). Checks and credit card authorization forms PTO-2038 submitted for payment purposes are not retained in the application file and therefore are not publicly available.</p> <p>LEGAL NAME OF INVENTOR</p> <p>Inventor: <u>Graham Merrett</u> Date (Optional): _____</p> <p>Signature: </p> <p><small>Note: An application data sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form or must have been previously filed. Use an additional PTO/AIA/01 form for each additional inventor.</small></p>	

This collection of information is required by 35 U.S.C. 115 and 37 CFR 1.63. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 1 minute to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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

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.

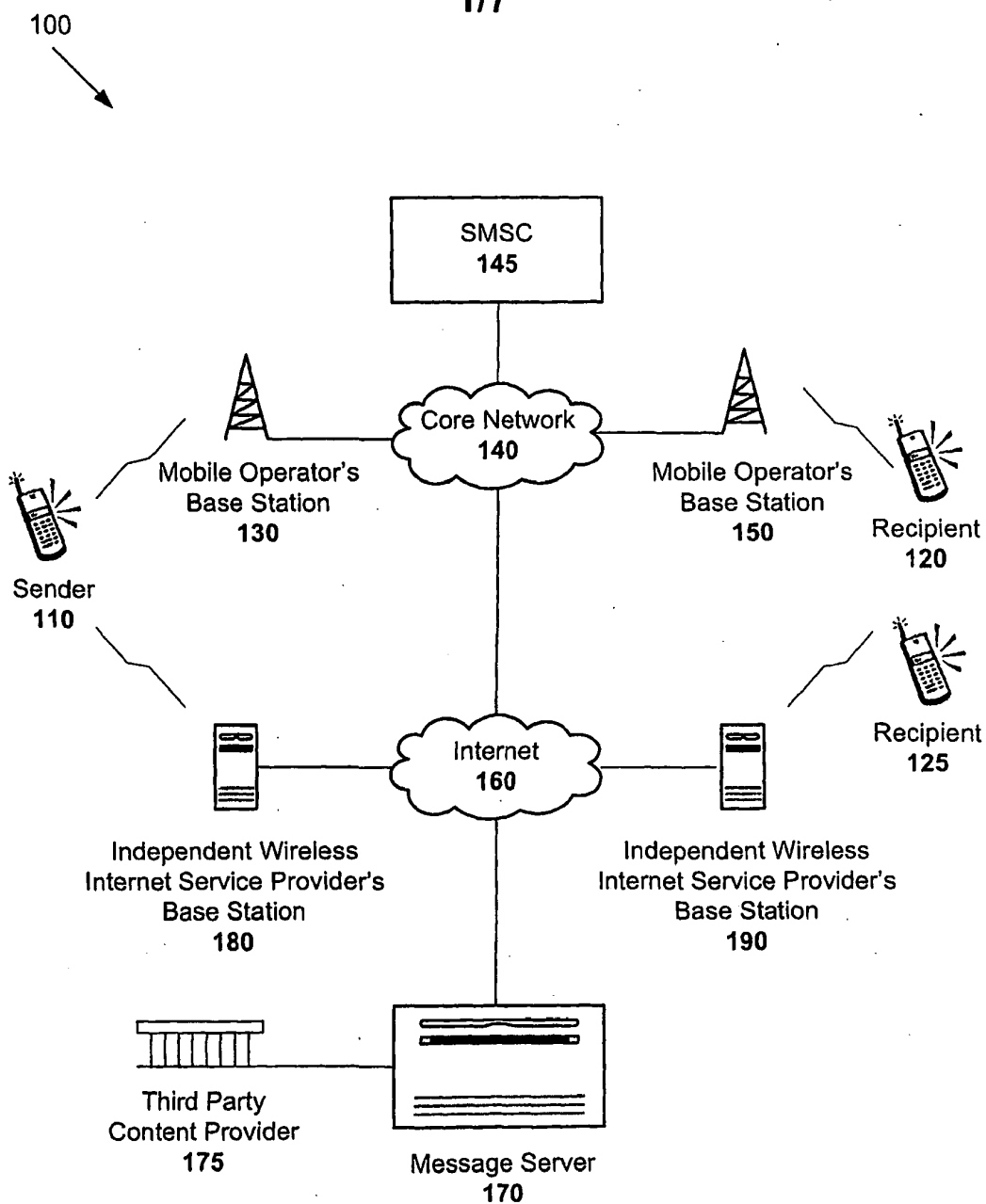


FIG. 1

110

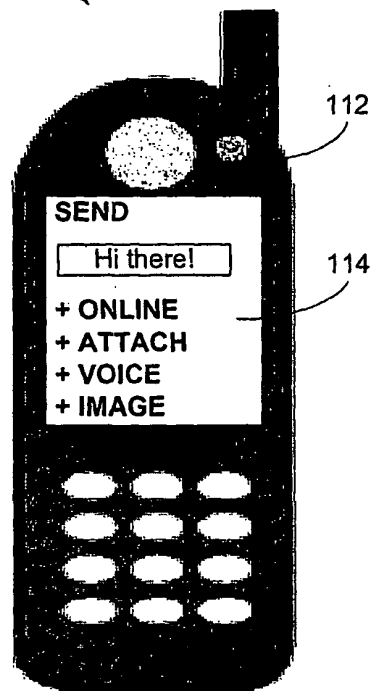


FIG. 2A

120

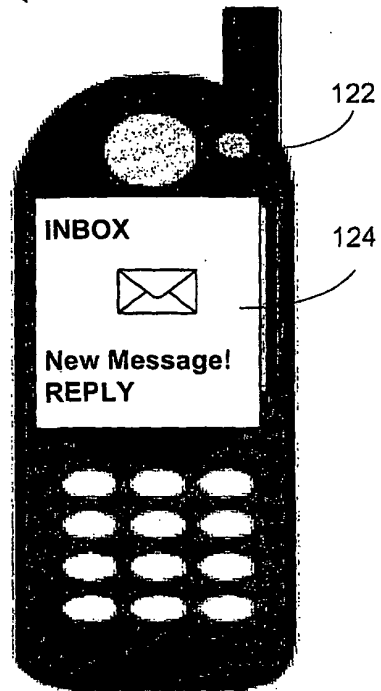


FIG. 2B

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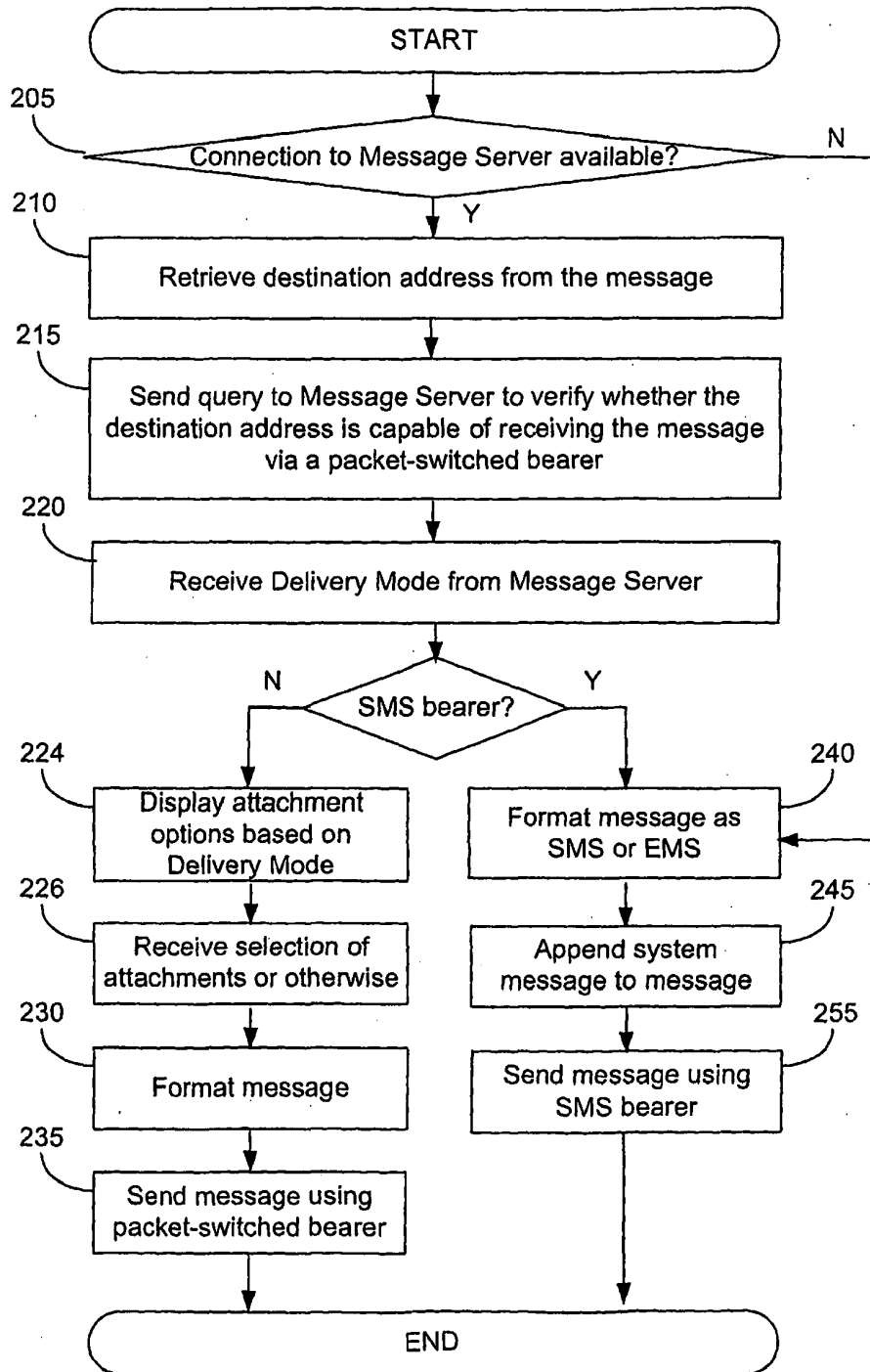


FIG. 3

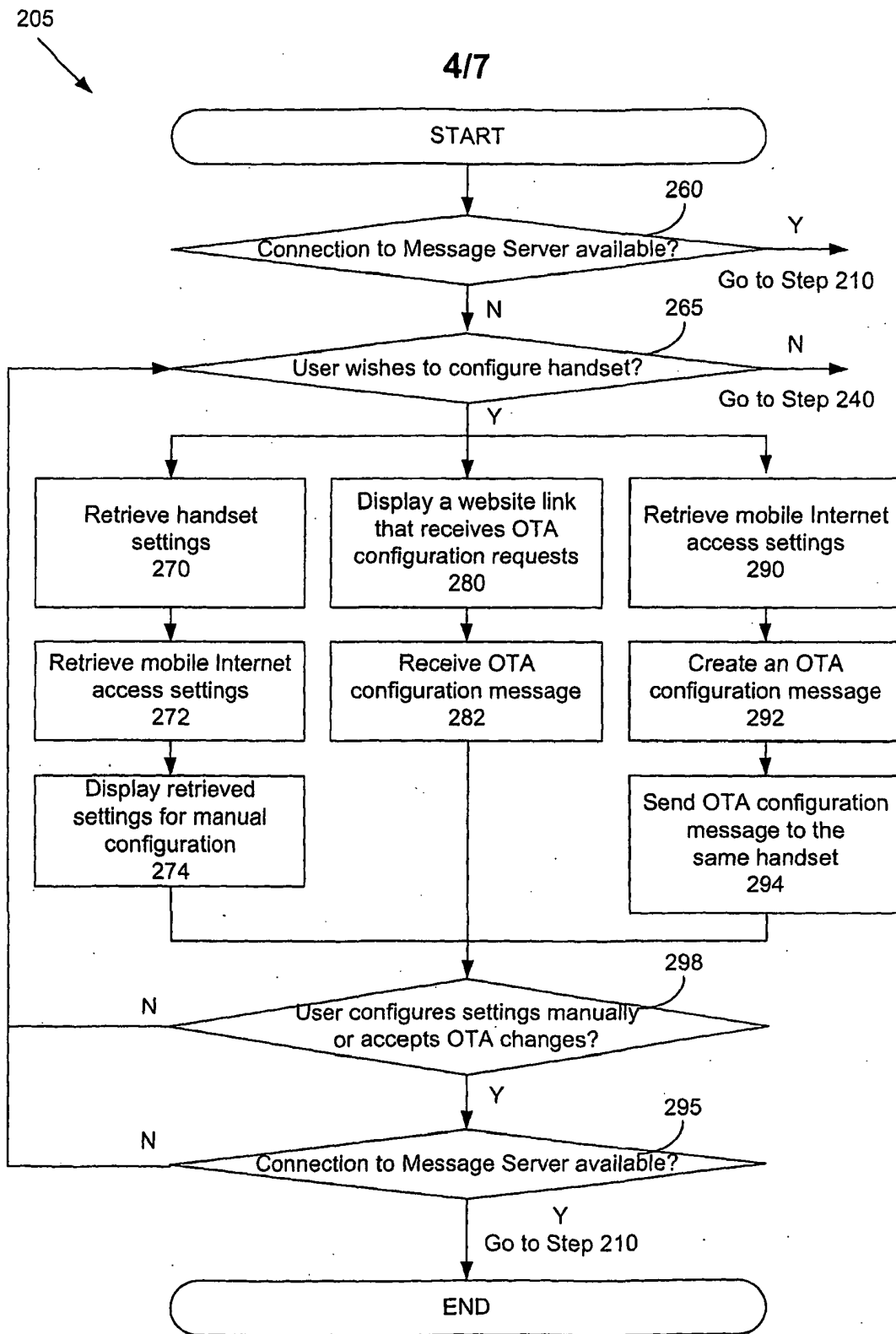


FIG. 4

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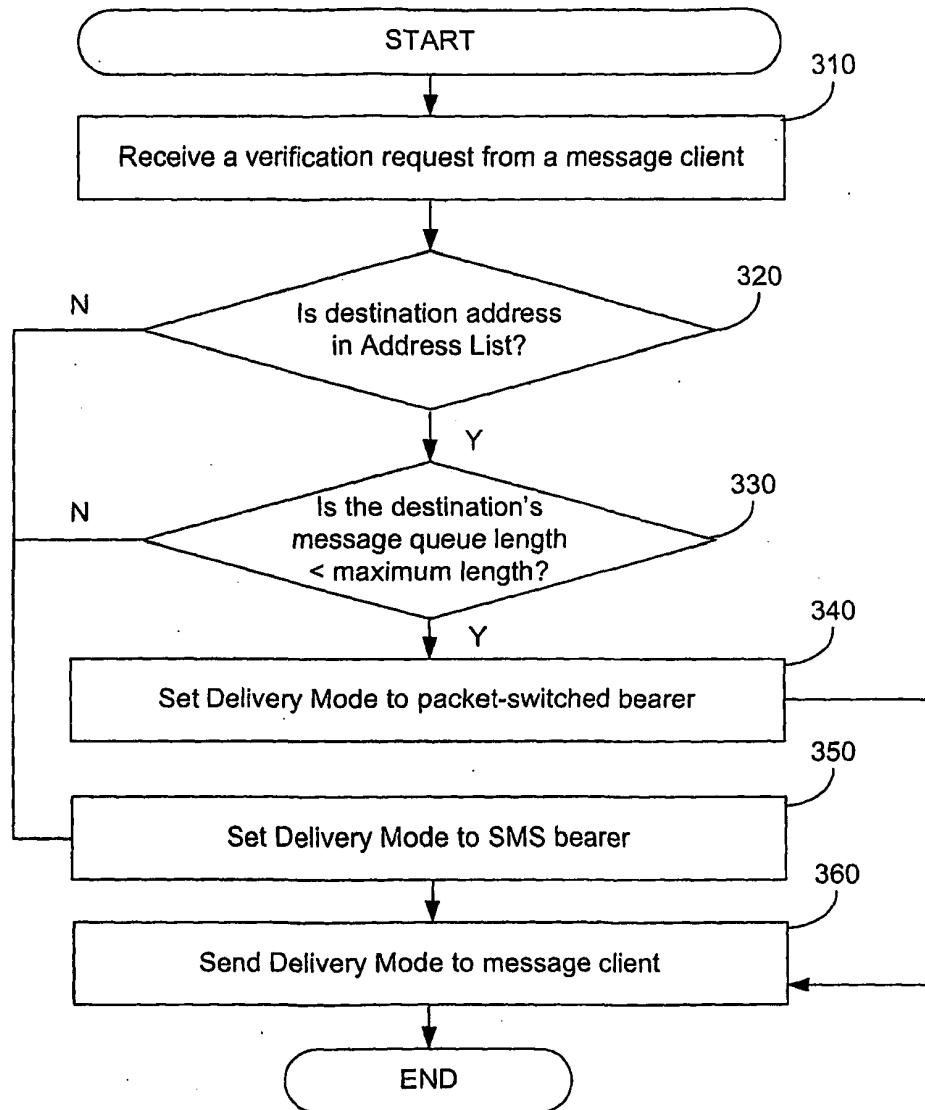


FIG. 5

FIG. 6A

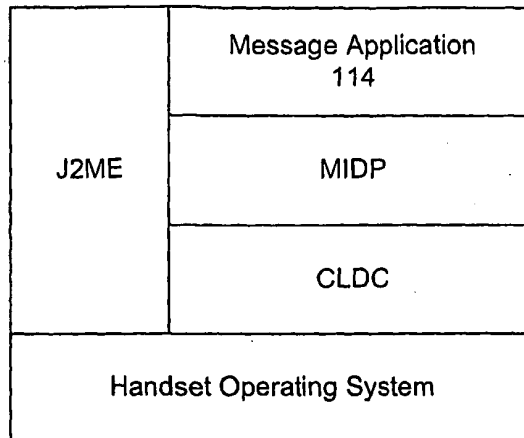


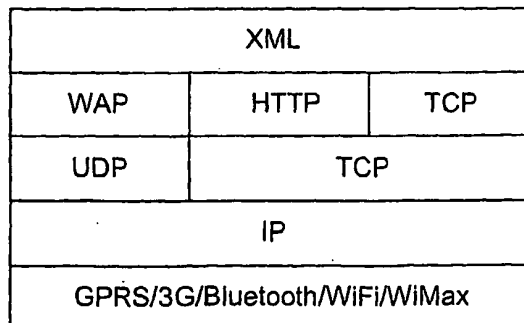
FIG. 6B

```

<message>
  <to>
    +1 555 1234
  </to>
  <body>
    Hi there!
  </body>
  <attachment>
    <photo>
      0xf6,0x34,0xa7...
    </photo>
    <voicemail>
      0xf6,0x34,0xa7...
    </voicemail>
  </attachment>
</message>

```

FIG. 6C



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FIG. 7

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

First Named Inventor:	Graham Merrett	Nonprovisional Application Number (if known):	
Title of Invention:	RANDOM NUMBER DERIVED MESSAGE TRANSMISSION TO A THIRD PARTY PROVIDER		

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

1. The processing fee set forth in 37 CFR 1.17(i), the prioritized examination fee set forth in 37 CFR 1.17(c), and if not already paid, the publication fee set forth in 37 CFR 1.18(d) have been filed with the request. The basic filing fee, search fee, examination fee, and any required excess claims and application size fees are filed with the request or have been already been paid.
2. The application contains or is amended to contain no more than four independent claims and no more than thirty total claims, and no multiple dependent claims.
3. The applicable box is checked below:

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

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

--OR--

(b) The application is an original nonprovisional plant application filed under 35 U.S.C. 111(a). This certification and request is being filed with the plant application in paper.
- ii. An executed oath or declaration under 37 CFR 1.63 is filed with the application.

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

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

Signature /Brian P. Gordaychik/	Date December 8, 2020
Name (Print/Typed) Brian P. Gordaychik	Practitioner Registration Number 62,179

Note: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required in accordance with 37 CFR 1.33 and 11.18. Please see 37 CFR 1.4(d) for the form of the signature. If necessary, submit multiple forms for more than one signature, see below*.

☐ *Total of _____ forms are submitted.

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