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Table with 5 columns: APPLICATION NO., ISSUE DATE, PATENT NO., ATTORNEY DOCKET NO., CONFIRMATION NO.
Row 1: 13/685,544, 09/12/2017, 9762397, 290.1078CON, 4882

33369 7590 08/23/2017
FASTH LAW OFFICES (ROLF FASTH)
1206 Stanridge Drive
Raleigh, NC 27613-7063

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):

MPH TECHNOLOGIES OY, Espoo, FINLAND;
Sami Vaarala, Espoo, FINLAND;
Antti Nuopponen, Espoo, FINLAND;

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.

Ex. 1003

Apple v. MPH Techs. Oy
IPR2019-00825

Index of Claims 	Application/Control No. 13685544	Applicant(s)/Patent Under Reexamination VAARALA ET AL.
	Examiner AFSHAWN TOWFIGHI	Art Unit 2469

✓	Rejected	-	Cancelled	N	Non-Elected	A	Appeal
=	Allowed	÷	Restricted	I	Interference	O	Objected

<input type="checkbox"/> Claims renumbered in the same order as presented by applicant		<input type="checkbox"/> CPA		<input type="checkbox"/> T.D.		<input type="checkbox"/> R.1.47	
CLAIM		DATE					
Final	Original	10/08/2013	12/06/2016	08/10/2017			
	1	-	-	-			
	2	-	-	-			
	3	-	-	-			
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1	30	=	=	=			
	31	=	=	-			
	32	=	=	-			
2	33	=	=	=			



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Table with 4 columns: APPLICATION NUMBER (13/685,544), FILING OR 371(C) DATE (11/26/2012), FIRST NAMED APPLICANT (Sami Vaarala), ATTY. DOCKET NO./TITLE (290.1078CON)

CONFIRMATION NO. 4882

33369
FASTH LAW OFFICES (ROLF FASTH)
1206 Stanridge Drive
Raleigh, NC 27613-7063

PUBLICATION NOTICE



Title:METHOD AND SYSTEM FOR SENDING A MESSAGE THROUGH A SECURE CONNECTION

Publication No.US-2017-0093580-A9

Publication Date:03/30/2017

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 Office of Public Records. The Office of Public Records 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, Office of Public Records, 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 http://pair.uspto.gov/. 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

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: **Mail** Mail Stop ISSUE FEE
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 or **Fax** (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)

7590 12/15/2016
ROLF FASTH
 FASTH LAW OFFICES
 26 PINECREST PLAZA, SUITE 2
 SOUTHERN PINES, NC 28387-4301

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

Certificate of Mailing or Transmission

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

SLOAN SMITH	(Depositor's name)
<i>Sloan Smith</i>	(Signature)
28 FEB. 2017	(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
13/685,544	11/26/2012	Sam Vaarala	290.1975CON	4882

TITLE OF INVENTION: METHOD AND SYSTEM FOR SENDING A MESSAGE THROUGH A SECURE CONNECTION

APPL. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	UNDISCOUNTED	40 40	\$0	\$960	960 \$0	03/15/2017

EXAMINER	ART UNIT	CLASS-SUBCLASS
TOWFIGHL, AFSHAWN M	2469	713-171660

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).
 Change of correspondence address for Change of Correspondence Address form PTO/SB/122) attached.
 "Fee Address" indication for "Fee Address" Indication form PTO/SB/47: Rev 03-02 or more recent) attached. Use of a Customer Number is required.

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

1. **FASTH LAW OFFICES**
 2. **Rolf Fasth**
 3. _____

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)
 PLEASE NOTE: Unless an assignee is identified below, an assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE: **MPH TECHNOLOGIES OY** (B) RESIDENCE: (CITY and STATE OR COUNTRY) **ESPOO, FINLAND**

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

4a. The following fee(s) are submitted:
 Issue Fee
 Publication Fee (No small entity discount permitted)
 Advance Order - # of Copies _____

4b. Payment of Fees(s): (Please first reapply any previously paid issue fee shown above)
 A check is enclosed.
 Payment by credit card. Form PTO-2038 is attached.
 The director is hereby authorized to charge the required fee(s), any deficiency, or credits any overpayment, to Deposit Account Number **000243** (enclose an extra copy of this form).

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 *Rolf Fasth* Date **28 February 2017**
 Typed or printed name **Rolf Fasth** Registration No. **36999**

Attorney Ref. 290.1078CON

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE
In re application of Art Unit 2469
Confirmation No. 4882

Sami Vaarala, Antti Nuopponen

Serial No. 13/685,544

Filed: 26 November 2012

For: METHOD AND SYSTEM FOR
SENDING A MESSAGE
THROUGH A SECURE
CONNECTION

Examiner: Towfighi, Afshawn M

Date: 28 February 2017

CERTIFICATE OF MAILING

I HEREBY CERTIFY THAT THIS PAPER AND THE DOCUMENTS
REFERRED TO AS BEING ATTACHED OR ENCLOSED HERewith
ARE BEING SUBMITTED ELECTRONICALLY TO THE UNITED
STATES PATENT AND TRADEMARK OFFICE ON **28 February**
2017.

/rfasth/

Rolf Fasth
Attorney for Applicant

TRANSMITTAL LETTER

ELECTRONIC SUBMISSION

COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, VA 22313-1450

In connection with issuance of a patent, enclosed for
filing in the above-referenced application are the following:

- (X) Form PTOL-85 (Part B - Fee Transmittal)
- (X) Letter requesting previous Issue Fee payment be applied to
current issuance of a patent.
- (X) The Commissioner is hereby authorized to charge any
additional fees which may be required in connection with
the issuance of a patent or credit over-payment to Account
No. 06-0243.

Respectfully submitted,
FASTH LAW OFFICES

/rfasth/

Rolf Fasth
Registration No. 36,999

FASTH LAW OFFICES
1206 Stanridge Drive
Raleigh, North Carolina 27613-7063 USA
Tel: +1-910-687-0001
Fax: +1-919-882-1265

Attorney Ref. 290.1078CON

Electronic Acknowledgement Receipt

EFS ID:	28479283
Application Number:	13685544
International Application Number:	
Confirmation Number:	4882
Title of Invention:	METHOD AND SYSTEM FOR SENDING A MESSAGE THROUGH A SECURE CONNECTION
First Named Inventor/Applicant Name:	Sami Vaarala
Customer Number:	33369
Filer:	Rolf Fasth/Sloan Smith
Filer Authorized By:	Rolf Fasth
Attorney Docket Number:	290.1078CON
Receipt Date:	28-FEB-2017
Filing Date:	26-NOV-2012
Time Stamp:	10:00:45
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	Miscellaneous Incoming Letter	LTR_ISSUE_FEE_PAID.pdf	212051 <small>626da2ce3e8071445331bf8a97391fe91bd122c3</small>	no	1

Warnings:

Information:					
2	Issue Fee Payment (PTO-85B)	PART_B.pdf	1991379	no	1
			f8f21e8fe048deefdb82367bc08b6b013c70e6a9		
Warnings:					
Information:					
3	Transmittal Letter	TRX.pdf	262607	no	1
			2fdff13d3ccf24db3ca43f820a433ce380df3dc		
Warnings:					
Information:					
Total Files Size (in bytes):				2466037	
<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>					

Attorney Ref. 290.1078CON

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE
In re application of Art Unit 2469
Confirmation No. 4882

Sami Vaarala, Antti Nuopponen

Serial No. 13/685,544

Filed: 26 November 2012

For: METHOD AND SYSTEM FOR
SENDING A MESSAGE
THROUGH A SECURE
CONNECTION

Examiner: Towfighi, Afshawn M

Date: 28 February 2017

Dear Sirs:

The Notice of Allowance dated 15 December 2016 states that an issue fee of \$960 has previously been paid, and that a fee of \$960 is due. The applicant of the above-captioned patent application has already paid the issue fee of \$960 on 6 January 2014 in response to the Notice of Allowance dated 21 October 2013. PTO sent out the first Notice of Allowance by mistake because it was sent out although the Inventors' Declaration was never received by PTO. Please see the Corrected Notice of Allowance dated 1 April 2014. Applicant was unaware of this discrepancy and paid the issue fee of \$960 on 6 January 2014. Because PTO never received the declaration, the application went abandoned and was later revived. Applicant respectfully requests that the earlier payment should be applied to the Notice of Allowance dated 15 December 2016.

In the event our request to apply the previously paid fee is denied, the Commissioner is hereby authorized to charge the fee of \$960 as well as any additional fees which may be required in connection with the issuance of a patent or credit over-payment to Account No. 06-0243.

Respectfully submitted,
FASTH LAW OFFICES

/rfasth/

Rolf Fasth
Registration No. 36,999

FASTH LAW OFFICES
1206 Stanridge Drive
Raleigh, North Carolina 27613-7063 USA
Tel: +1-910-687-0001
Fax: +1-919-882-1265

Attorney Ref. 290.1078CON

PART B - FEE(S) TRANSMITTAL

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7599 12/15/2016
 ROLF FASTH
 FASTH LAW OFFICES
 26 PINECREST PLAZA, SUITE 2
 SOUTHERN PINES, NC 28387-4301



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

SLOAN SMITH	(Depositor's name)
<i>Sloan Smith</i>	(Signature)
28 FEB. 2017	(Date)

131 285544

APPLICATION NO.	FILING DATE	FIRST NAME / INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
13/685,544	11/26/2012	Samu Vaarala	290.1075CON	4882

TITLE OF INVENTION: METHOD AND SYSTEM FOR SENDING A MESSAGE THROUGH A SECURE CONNECTION

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	UNDISCOUNTED	40 40	\$0	5960	5960 \$0	03/15/2017

EXAMINER	ART UNIT	CLASS-SUBCLASS
TOWFIGHL, AFSHAWY M	2469	713-171000

03/01/2017 HVUONG2 00000010 060243 13685544
 01 FC:1501 960.00 DA

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 03-02 or more recent) attached. Use of a Customer Number is required.

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

1. FASTH LAW OFFICES
2. Rolf Fasth
- 3.

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

PLEASE NOTE: Unless an assignee is identified below, an assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE: MPH TECHNOLOGIES OY
 (B) RESIDENCE: (CITY and STATE OR COUNTRY): ESPOO, FINLAND

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

4a. The following fee(s) are submitted:

- Issue Fee
- Publication Fee (No small entity discount permitted)
- Advance Order - # of Copies

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

- A check is enclosed.
- Payment by credit card. Form PTO-2038 is attached.
- The director is hereby authorized to charge the required fee(s), any deficiency, or credits any overpayment, to Deposit Account Number 060243 (enclose an extra copy of this form).

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.

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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: *Rolf Fasth*
 Typed or printed name: Rolf Fasth

Date: 28 February 2017
 Adjustment date: 26 000 2017 HVUONG2
 Registered: 01/07/2014 INTEL-50 00000270-060243-13685544
 01 FC:1501 960.00 CR



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www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
13/685,544	11/26/2012	Sami Vaarala	290.1078CON	4882

33369 7590 02/23/2017
FASTH LAW OFFICES (ROLF FASTH)
1206 Stanridge Drive
Raleigh, NC 27613-7063

EXAMINER

TOWFIGHI, AFSHAWN M

ART UNIT	PAPER NUMBER
----------	--------------

2469

NOTIFICATION DATE	DELIVERY MODE
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02/23/2017

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):

sloan.smith@fasthlaw.com

Corrected Notice of Allowability	Application No. 13/685,544	Applicant(s) VAARALA ET AL.	
	Examiner AFSHAWN TOWFIGHI	Art Unit 2469	AIA (First Inventor to File) 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 *interview 2/16/17*.
 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 30, 33 (renumbered 1-2). 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. <input type="checkbox"/> Notice of References Cited (PTO-892) | 5. <input checked="" type="checkbox"/> Examiner's Amendment/Comment |
| 2. <input type="checkbox"/> Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date _____ | 6. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance |
| 3. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit
of Biological Material | 7. <input type="checkbox"/> Other _____. |
| 4. <input checked="" type="checkbox"/> Interview Summary (PTO-413),
Paper No./Mail Date <u>2/16/17</u> . | |

/AFSHAWN TOWFIGHI/
Primary Examiner, Art Unit 2469

DETAILED ACTION

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

EXAMINER'S AMENDMENT

2. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in an interview with Rolf Fath on 2/16/17.

The application has been amended as follows:

In the claims filed 12/9/16,

Claim 30, please replace the claim with

A method for secure forwarding of a message in a secure connection via an intermediate computer, comprising:

a first computer and a second computer establishing a secure connection by negotiating and exchanging keys with one another according to a key exchange protocol via the intermediate computer,

the intermediate computer receiving a secure message having a first source address sent to an address of the intermediate computer,

*the intermediate computer reading an unique identity from the secure message,
the intermediate computer finding a destination address of the secure message
by using the unique identity, and
the intermediate computer sending the secure message in the secure connection
to the destination address by using the address of the intermediate computer as a
second source address.*

Please cancel claims 31 and 32.

Allowable Subject Matter

3. Claims 30, 33 (renumbered 1-2) (amended) are allowed.
4. The following is an examiner's statement of reasons for allowance:

Amended claims 30, 33 (renumbered 1-2) are allowable over prior art since the prior art reference(s) taken individually or in combination fails to particularly disclose, fairly suggests, or render obvious as argued by the applicant which examiner considers as persuasive as set forth above. Additional reasons for allowance can be found in the Notice of Allowance for parent application 10/500,930 dated 1/12/12.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to AFSHAWN TOWFIGHI whose telephone number is (571)270-7296. The examiner can normally be reached on Monday - Friday 9:00 A.M. to 6:00 P.M..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ian Moore can be reached on (571)272-3085. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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/AFSHAWN TOWFIGHI/

Primary Examiner, Art Unit 2469

Application/Control Number: 13/685,544
Art Unit: 2469

Page 5

Applicant-Initiated Interview Summary	Application No. 13/685,544	Applicant(s) VAARALA ET AL.	
	Examiner AFSHAWN TOWFIGHI	Art Unit 2469	

All participants (applicant, applicant's representative, PTO personnel):

- (1) AFSHAWN TOWFIGHI. (3)_____.
- (2) Rolf Fasth. (4)_____.

Date of Interview: 16 February 2017.

Type: Telephonic Video Conference
 Personal [copy given to: applicant applicant's representative]

Exhibit shown or demonstration conducted: Yes No.
If Yes, brief description: _____.

Issues Discussed 101 112 102 103 Others
(For each of the checked box(es) above, please describe below the issue and detailed description of the discussion)

Claim(s) discussed: 30.

Identification of prior art discussed: n/a.

Substance of Interview

(For each issue discussed, provide a detailed description and indicate if agreement was reached. Some topics may include: identification or clarification of a reference or a portion thereof, claim interpretation, proposed amendments, arguments of any applied references etc...)

Authorization was given to correct an antecedent basis issue.

Applicant recordation instructions: The formal written reply to the last Office action must include the substance of the interview. (See MPEP section 713.04). If a reply to the last Office action has already been filed, applicant is given a non-extendable period of the longer of one month or thirty days from this interview date, or the mailing date of this interview summary form, whichever is later, to file a statement of the substance of the interview

Examiner recordation instructions: Examiners must summarize the substance of any interview of record. A complete and proper recordation of the substance of an interview should include the items listed in MPEP 713.04 for complete and proper recordation including the identification of the general thrust of each argument or issue discussed, a general indication of any other pertinent matters discussed regarding patentability and the general results or outcome of the interview, to include an indication as to whether or not agreement was reached on the issues raised.

Attachment

/AFSHAWN TOWFIGHI/
Primary Examiner, Art Unit 2469

Summary of Record of Interview Requirements

Manual of Patent Examining Procedure (MPEP), Section 713.04, Substance of Interview Must be Made of Record

A complete written statement as to the substance of any face-to-face, video conference, or telephone interview with regard to an application must be made of record in the application whether or not an agreement with the examiner was reached at the interview.

Title 37 Code of Federal Regulations (CFR) § 1.133 Interviews

Paragraph (b)

In every instance where reconsideration is requested in view of an interview with an examiner, a complete written statement of the reasons presented at the interview as warranting favorable action must be filed by the applicant. An interview does not remove the necessity for reply to Office action as specified in §§ 1.111, 1.135. (35 U.S.C. 132)

37 CFR §1.2 Business to be transacted in writing.

All business with the Patent or Trademark Office should be transacted in writing. The personal attendance of applicants or their attorneys or agents at the Patent and Trademark Office is unnecessary. The action of the Patent and Trademark Office will be based exclusively on the written record in the Office. No attention will be paid to any alleged oral promise, stipulation, or understanding in relation to which there is disagreement or doubt.

The action of the Patent and Trademark Office cannot be based exclusively on the written record in the Office if that record is itself incomplete through the failure to record the substance of interviews.

It is the responsibility of the applicant or the attorney or agent to make the substance of an interview of record in the application file, unless the examiner indicates he or she will do so. It is the examiner's responsibility to see that such a record is made and to correct material inaccuracies which bear directly on the question of patentability.

Examiners must complete an Interview Summary Form for each interview held where a matter of substance has been discussed during the interview by checking the appropriate boxes and filling in the blanks. Discussions regarding only procedural matters, directed solely to restriction requirements for which interview recordation is otherwise provided for in Section 812.01 of the Manual of Patent Examining Procedure, or pointing out typographical errors or unreadable script in Office actions or the like, are excluded from the interview recordation procedures below. Where the substance of an interview is completely recorded in an Examiners Amendment, no separate Interview Summary Record is required.

The Interview Summary Form shall be given an appropriate Paper No., placed in the right hand portion of the file, and listed on the "Contents" section of the file wrapper. In a personal interview, a duplicate of the Form is given to the applicant (or attorney or agent) at the conclusion of the interview. In the case of a telephone or video-conference interview, the copy is mailed to the applicant's correspondence address either with or prior to the next official communication. If additional correspondence from the examiner is not likely before an allowance or if other circumstances dictate, the Form should be mailed promptly after the interview rather than with the next official communication.

The Form provides for recordation of the following information:

- Application Number (Series Code and Serial Number)
- Name of applicant
- Name of examiner
- Date of interview
- Type of interview (telephonic, video-conference, or personal)
- Name of participant(s) (applicant, attorney or agent, examiner, other PTO personnel, etc.)
- An indication whether or not an exhibit was shown or a demonstration conducted
- An identification of the specific prior art discussed
- An indication whether an agreement was reached and if so, a description of the general nature of the agreement (may be by attachment of a copy of amendments or claims agreed as being allowable). Note: Agreement as to allowability is tentative and does not restrict further action by the examiner to the contrary.
- The signature of the examiner who conducted the interview (if Form is not an attachment to a signed Office action)

It is desirable that the examiner orally remind the applicant of his or her obligation to record the substance of the interview of each case. It should be noted, however, that the Interview Summary Form will not normally be considered a complete and proper recordation of the interview unless it includes, or is supplemented by the applicant or the examiner to include, all of the applicable items required below concerning the substance of the interview.

A complete and proper recordation of the substance of any interview should include at least the following applicable items:

- 1) A brief description of the nature of any exhibit shown or any demonstration conducted,
- 2) an identification of the claims discussed,
- 3) an identification of the specific prior art discussed,
- 4) an identification of the principal proposed amendments of a substantive nature discussed, unless these are already described on the Interview Summary Form completed by the Examiner,
- 5) a brief identification of the general thrust of the principal arguments presented to the examiner,
(The identification of arguments need not be lengthy or elaborate. A verbatim or highly detailed description of the arguments is not required. The identification of the arguments is sufficient if the general nature or thrust of the principal arguments made to the examiner can be understood in the context of the application file. Of course, the applicant may desire to emphasize and fully describe those arguments which he or she feels were or might be persuasive to the examiner.)
- 6) a general indication of any other pertinent matters discussed, and
- 7) if appropriate, the general results or outcome of the interview unless already described in the Interview Summary Form completed by the examiner.

Examiners are expected to carefully review the applicant's record of the substance of an interview. If the record is not complete and accurate, the examiner will give the applicant an extendable one month time period to correct the record.

Examiner to Check for Accuracy

If the claims are allowable for other reasons of record, the examiner should send a letter setting forth the examiner's version of the statement attributed to him or her. If the record is complete and accurate, the examiner should place the indication, "Interview Record OK" on the paper recording the substance of the interview along with the date and the examiner's initials.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of

Sami Vaarala, Antti Nuopponen

Art Unit 2469
Confirmation No. 4882

Serial No. 13/685,544

CERTIFICATE OF MAILING

Filed: 26 November 2012

I HEREBY CERTIFY THAT THIS PAPER AND THE DOCUMENTS REFERRED TO AS BEING ATTACHED OR ENCLOSED HERewith ARE BEING SUBMITTED ELECTRONICALLY TO THE UNITED STATES PATENT AND TRADEMARK OFFICE ON **20 February 2017**.

For: METHOD AND SYSTEM FOR
SENDING A MESSAGE
THROUGH A SECURE
CONNECTION

/rfasth/

Examiner: Afshawn M. Towfighi

Rolf Fasth
Attorney for Applicant

Date: 20 February 2017

TRANSMITTAL LETTER

ELECTRONIC SUBMISSION

COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, VA 22313-1450

In connection with the issuance of a patent, enclosed for filing is the above-referenced application are the following:

- (X) Formal Drawings
- (X) The Commissioner is hereby authorized to charge any additional fees which may be required in connection with the issuance of a patent or credit over-payment to Account No. 06-0243.

Respectfully submitted,

FASTH LAW OFFICES

/rfasth/

Rolf Fasth
Registration No. 36,999

FASTH LAW OFFICES
1206 Stanridge Drive
Raleigh, NC 27613-7063

Telephone: (919) 687-0001
Facsimile: (919) 882-1265
Email: rolf.fasth@fasthlaw.com

Attorney Ref. No. 290.1078CON

Electronic Acknowledgement Receipt

EFS ID:	28401506
Application Number:	13685544
International Application Number:	
Confirmation Number:	4882
Title of Invention:	METHOD AND SYSTEM FOR SENDING A MESSAGE THROUGH A SECURE CONNECTION
First Named Inventor/Applicant Name:	Sami Vaarala
Customer Number:	33369
Filer:	Rolf Fasth/Sloan Smith
Filer Authorized By:	Rolf Fasth
Attorney Docket Number:	290.1078CON
Receipt Date:	20-FEB-2017
Filing Date:	26-NOV-2012
Time Stamp:	09:59:07
Application Type:	Utility under 35 USC 111(a)

Payment information:

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

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Drawings-only black and white line drawings	FIGS.pdf	924495 b76b7af2ea3e396636dfbe13d373036b698fc3c8	no	6

Warnings:

Information:					
2	Transmittal Letter	TRX.pdf	281476	no	1
			71e8e9011d09434626e97b71c14e0bd8c2654302		
Warnings:					
Information:					
Total Files Size (in bytes):				1205971	
<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>					

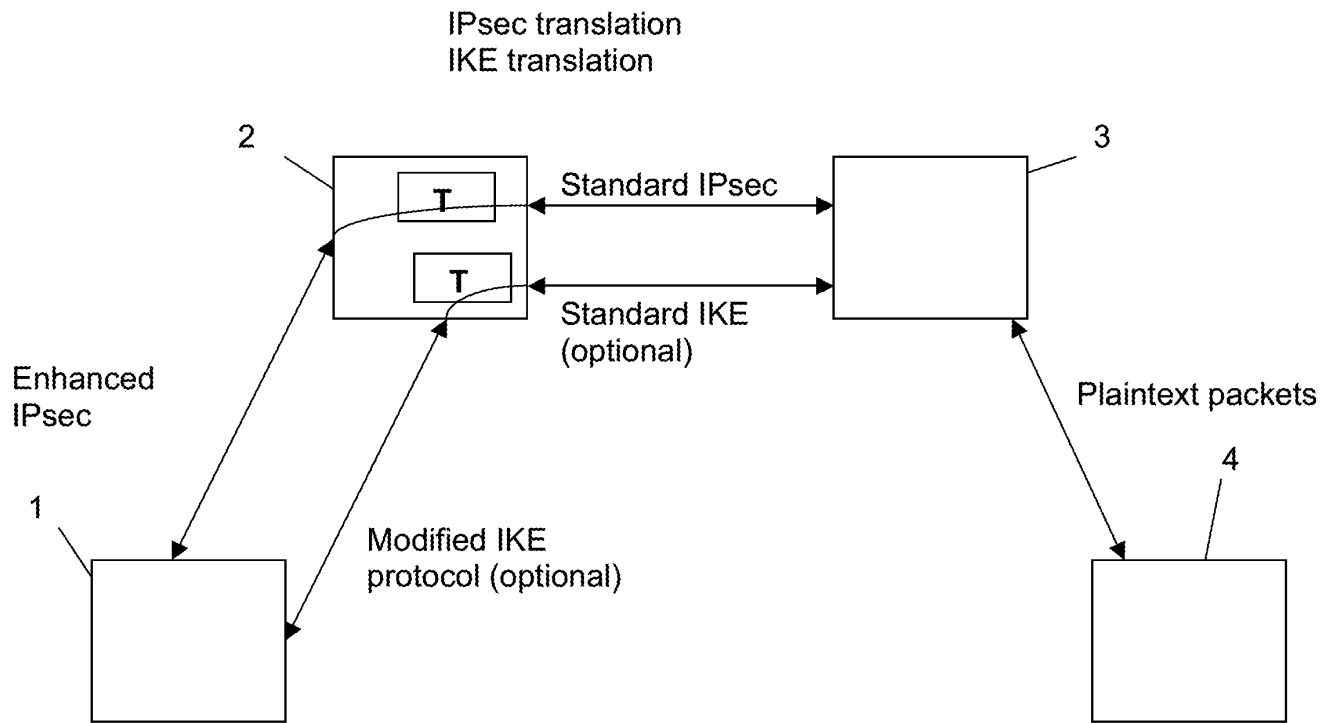


FIG. 1

2/6
REPLACEMENT SHEET

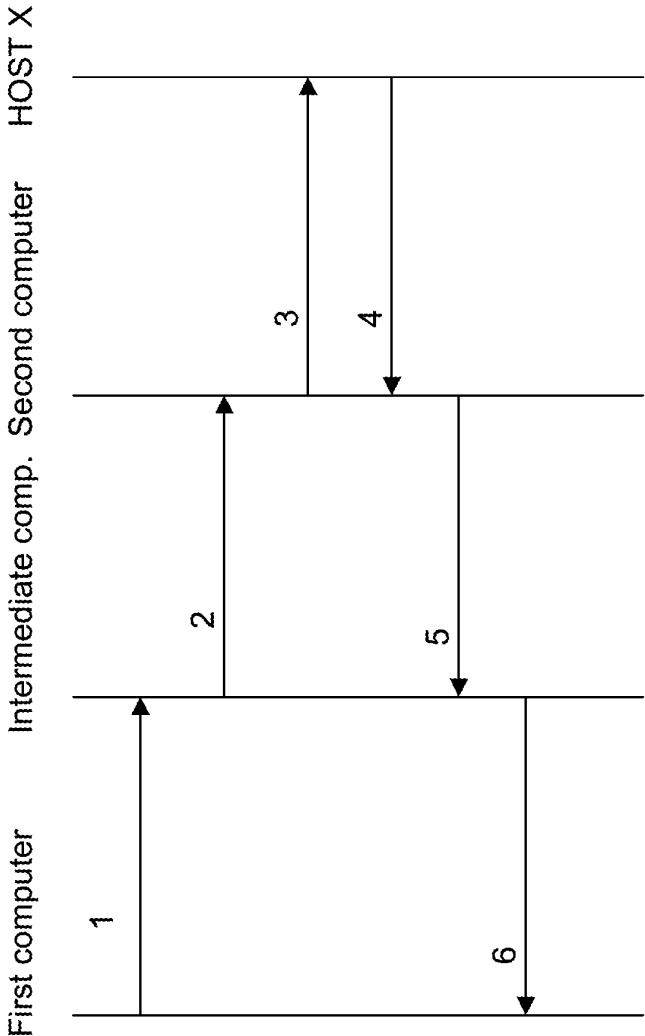


FIG. 2

c-addr-1	c-addr-2	c-SPI-1	c-SPI-2		s-addr-2	s-addr-3	s-SPI-2	s-SPI-3
195.1.2.3	212.90.65.1	0x80000001	0x12341234		212.90.65.1	103.6.5.4	0x1230012	0x56785678
...

FIG. 3

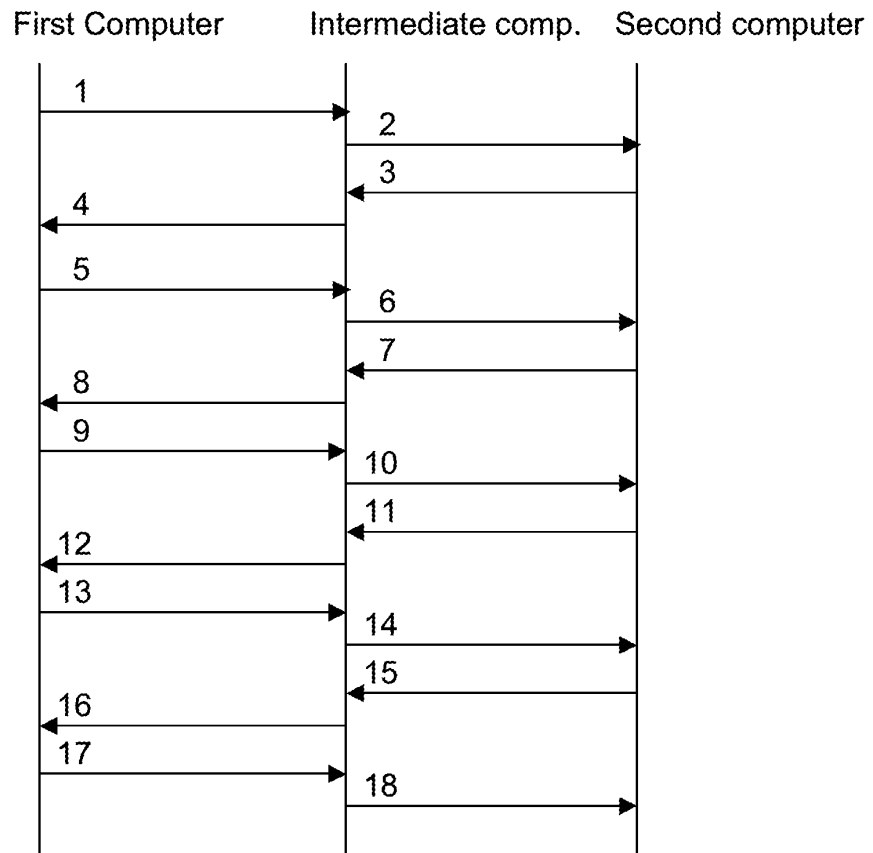


FIG. 4

Mapping field	Stage 1	Stage 2	Stage 3	Stage 4
c-addr-1	195.1.2.3	195.1.2.3	195.1.2.3	195.1.2.3
c-addr-2	212.90.65.1	212.90.65.1	212.90.65.1	212.90.65.1
c-icky	CKY1	CKY1	CKY1	CKY1
c-rcky	0	0	0	CKY4
c-userid	joe@netseal.com	joe@netseal.com	joe@netseal.com	joe@netseal.com
s-addr-2	n/a	212.90.65.1	212.90.65.1	212.90.65.1
s-addr-3	n/a	103.6.5.4	103.6.5.4	103.6.5.4
s-icky	n/a	CKY2	CKY2	CKY2
s-rcky	n/a	0	CKY3	CKY3

FIG. 5

6/6
REPLACEMENT SHEET

Identification type	Identification value	SGW address
User@Fully-Qualified-Domain-Name	*.smith@netseal.com	123.1.2.3
user@Fully-Qualified-Domain-Name	*@netseal.com	103.6.5.4
Distinguished Name	"CN=Sami Vaarala, DC=netseal, DC=com"	122.4.3.2
Fully-Qualified-Domain-Name	host4.roammate.com	123.3.2.1
Employee number and company	"190170 / NetSeal Technologies"	123.4.3.2
...

FIG. 6



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

Table with 5 columns: APPLICATION NO., FILING DATE, FIRST NAMED INVENTOR, ATTORNEY DOCKET NO., CONFIRMATION NO. Includes details for application 13/685,544, inventor Sami Vaarala, and attorney FASTH LAW OFFICES.

Letter Withdrawing a Notice Requiring Inventor’s Oath or Declaration

The Notice Requiring Inventor’s Oath or Declaration mailed on _____ was sent in error, and is hereby withdrawn. The time period set forth in the Notice of Allowance and Fee(s) Due to file a reply and pay the required fees continues to run from the mailing date of the Notice of Allowance and Fee(s) Due.

Questions relating to this Notice should be directed to the Application Assistance Unit at 571-272-4200.

(571)-272-4200 or 1(888)-786-0101
Patent Publication Branch
Office of Data Management



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.
13/685,544	11/26/2012	Sami Vaarala	290.1078CON	4882

33369 7590 02/10/2017
FASTH LAW OFFICES (ROLF FASTH)
1206 Stanridge Drive
Raleigh, NC 27613-7063

EXAMINER

TOWFIGHI, AFSHAWN M

ART UNIT	PAPER NUMBER
----------	--------------

2469

NOTIFICATION DATE	DELIVERY MODE
-------------------	---------------

02/10/2017

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):

sloan.smith@fasthlaw.com

Corrected Notice of Allowability	Application No. 13/685,544	Applicant(s) VAARALA ET AL.	
	Examiner AFSHAWN TOWFIGHI	Art Unit 2469	AIA (First Inventor to File) 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 *interview dated 2/3/17*.
 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 30, 33 (renumbered 1-2). 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. <input type="checkbox"/> Notice of References Cited (PTO-892) | 5. <input checked="" type="checkbox"/> Examiner's Amendment/Comment |
| 2. <input type="checkbox"/> Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date _____ | 6. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance |
| 3. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit
of Biological Material | 7. <input type="checkbox"/> Other _____. |
| 4. <input checked="" type="checkbox"/> Interview Summary (PTO-413),
Paper No./Mail Date <u>2/3/17</u> . | |

/AFSHAWN TOWFIGHI/
Primary Examiner, Art Unit 2469

DETAILED ACTION

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

EXAMINER'S AMENDMENT

2. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in an interview with Rolf Fasth on 2/3/17.

The application has been amended as follows:

In the claims filed 12/9/16,

Claim 30, lines 4-5, please replace "the secure connection extending between a first source address and a destination address via an intermediate computer," with "*a first computer and a second computer establishing a secure connection by negotiating and exchanging keys with one another according to a key exchange protocol via the intermediate computer,*"

Please cancel claims 31 and 32.

Allowable Subject Matter

3. Claims 30, 33 (renumbered 1-2) (amended) are allowed.
4. The following is an examiner's statement of reasons for allowance:

Amended claims 30, 33 (renumbered 1-2) are allowable over prior art since the prior art reference(s) taken individually or in combination fails to particularly disclose, fairly suggests, or render obvious as argued by the applicant which examiner considers as persuasive as set forth above. Additional reasons for allowance can be found in the Notice of Allowance for parent application 10/500,930 dated 1/12/12.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to AFSHAWN TOWFIGHI whose telephone number is (571)270-7296. The examiner can normally be reached on Monday - Friday 9:00 A.M. to 6:00 P.M..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ian Moore can be reached on (571)272-3085. 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.

/AFSHAWN TOWFIGHI/

Primary Examiner, Art Unit 2469

<i>Applicant-Initiated Interview Summary</i>	Application No. 13/685,544	Applicant(s) VAARALA ET AL.	
	Examiner AFSHAWN TOWFIGHI	Art Unit 2469	

All participants (applicant, applicant's representative, PTO personnel):

- (1) AFSHAWN TOWFIGHI. (3)_____.
- (2) Rolf Fasth. (4)_____.

Date of Interview: 03 February 2017.

Type: Telephonic Video Conference
 Personal [copy given to: applicant applicant's representative]

Exhibit shown or demonstration conducted: Yes No.
If Yes, brief description: _____.

Issues Discussed 101 112 102 103 Others
(For each of the checked box(es) above, please describe below the issue and detailed description of the discussion)

Claim(s) discussed: 30-32.

Identification of prior art discussed: n/a.

Substance of Interview

(For each issue discussed, provide a detailed description and indicate if agreement was reached. Some topics may include: identification or clarification of a reference or a portion thereof, claim interpretation, proposed amendments, arguments of any applied references etc...)

Mr. Fasth contacted the examiner to authorize an antecedent basis issue with the amended claim. Examiner asked Mr. Fasth for clarification on the "to establish" portion on claim 30 and how claims 31-32. For clarity, authorization was given to remove the "to establish" phrase and explicitly use "establishing", as well as cancel claims 31 and 32..

Applicant recordation instructions: The formal written reply to the last Office action must include the substance of the interview. (See MPEP section 713.04). If a reply to the last Office action has already been filed, applicant is given a non-extendable period of the longer of one month or thirty days from this interview date, or the mailing date of this interview summary form, whichever is later, to file a statement of the substance of the interview

Examiner recordation instructions: Examiners must summarize the substance of any interview of record. A complete and proper recordation of the substance of an interview should include the items listed in MPEP 713.04 for complete and proper recordation including the identification of the general thrust of each argument or issue discussed, a general indication of any other pertinent matters discussed regarding patentability and the general results or outcome of the interview, to include an indication as to whether or not agreement was reached on the issues raised.

Attachment

/AFSHAWN TOWFIGHI/
Primary Examiner, Art Unit 2469

Summary of Record of Interview Requirements

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Title 37 Code of Federal Regulations (CFR) § 1.133 Interviews

Paragraph (b)

In every instance where reconsideration is requested in view of an interview with an examiner, a complete written statement of the reasons presented at the interview as warranting favorable action must be filed by the applicant. An interview does not remove the necessity for reply to Office action as specified in §§ 1.111, 1.135. (35 U.S.C. 132)

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Examiners must complete an Interview Summary Form for each interview held where a matter of substance has been discussed during the interview by checking the appropriate boxes and filling in the blanks. Discussions regarding only procedural matters, directed solely to restriction requirements for which interview recordation is otherwise provided for in Section 812.01 of the Manual of Patent Examining Procedure, or pointing out typographical errors or unreadable script in Office actions or the like, are excluded from the interview recordation procedures below. Where the substance of an interview is completely recorded in an Examiners Amendment, no separate Interview Summary Record is required.

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The Form provides for recordation of the following information:

- Application Number (Series Code and Serial Number)
- Name of applicant
- Name of examiner
- Date of interview
- Type of interview (telephonic, video-conference, or personal)
- Name of participant(s) (applicant, attorney or agent, examiner, other PTO personnel, etc.)
- An indication whether or not an exhibit was shown or a demonstration conducted
- An identification of the specific prior art discussed
- An indication whether an agreement was reached and if so, a description of the general nature of the agreement (may be by attachment of a copy of amendments or claims agreed as being allowable). Note: Agreement as to allowability is tentative and does not restrict further action by the examiner to the contrary.
- The signature of the examiner who conducted the interview (if Form is not an attachment to a signed Office action)

It is desirable that the examiner orally remind the applicant of his or her obligation to record the substance of the interview of each case. It should be noted, however, that the Interview Summary Form will not normally be considered a complete and proper recordation of the interview unless it includes, or is supplemented by the applicant or the examiner to include, all of the applicable items required below concerning the substance of the interview.

A complete and proper recordation of the substance of any interview should include at least the following applicable items:

- 1) A brief description of the nature of any exhibit shown or any demonstration conducted,
- 2) an identification of the claims discussed,
- 3) an identification of the specific prior art discussed,
- 4) an identification of the principal proposed amendments of a substantive nature discussed, unless these are already described on the Interview Summary Form completed by the Examiner,
- 5) a brief identification of the general thrust of the principal arguments presented to the examiner,
(The identification of arguments need not be lengthy or elaborate. A verbatim or highly detailed description of the arguments is not required. The identification of the arguments is sufficient if the general nature or thrust of the principal arguments made to the examiner can be understood in the context of the application file. Of course, the applicant may desire to emphasize and fully describe those arguments which he or she feels were or might be persuasive to the examiner.)
- 6) a general indication of any other pertinent matters discussed, and
- 7) if appropriate, the general results or outcome of the interview unless already described in the Interview Summary Form completed by the examiner.

Examiners are expected to carefully review the applicant's record of the substance of an interview. If the record is not complete and accurate, the examiner will give the applicant an extendable one month time period to correct the record.

Examiner to Check for Accuracy

If the claims are allowable for other reasons of record, the examiner should send a letter setting forth the examiner's version of the statement attributed to him or her. If the record is complete and accurate, the examiner should place the indication, "Interview Record OK" on the paper recording the substance of the interview along with the date and the examiner's initials.



UNITED STATES PATENT AND TRADEMARK OFFICE

USPTO Automated Interview Request (AIR)

Feb 1 2017

This paper requesting to schedule and/or conduct an interview is appropriate because:

This submission is requested to be accepted as an authorization for this interview to communicate via the internet. Recognizing that Internet communications are not secure, I hereby authorize the USPTO to communicate with the undersigned concerning scheduling of the interview via video conference, instant messaging, or electronic mail, and to conduct the interview in accordance with office practice including video conferencing.

Name(s):
Rolf Fasth

S-signature:
/rfasth/

Registration Number:
36999

U.S. Application Number:
13685544

Confirmation Number:
4882

E-mail Address:
rolf.fasth@fasthlaw.com

Phone Number:
9106870001

Proposed Time of Interview:
2-13-2017 5:00 PM ET

Preferred Interview Type:
Telephonic

I am the applicant or applicant's representative for this application.



UNITED STATES
PATENT AND TRADEMARK OFFICE

PALM-SILVER



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

Table with 5 columns: APPLICATION NO., FILING DATE, FIRST NAMED INVENTOR, ATTORNEY DOCKET NO., CONFIRMATION NO.
13/685,544 11/26/2012 Sami Vaarala 290.1078CON 4882
FASTH LAW OFFICES (ROLF FASTH) 7590 01/26/2017
1206 Stanridge Drive
Raleigh, NC 27613-7063
EXAMINER TOWFIGHI, AFSHAWN M
ART UNIT 2469 PAPER NUMBER
DATE MAILED: 01/26/2017

PRIORITY ACKNOWLEDGMENT

- 1. Receipt is acknowledged of priority papers submitted under 35 U.S.C. 119. The papers have been placed of record in the file.
2. Applicant's claim for priority, based on papers filed in parent Application Number 10500930 submitted under 35 U.S.C. 119, is acknowledged.
3. The priority papers, submitted _____, after payment of the issue fee are
- acknowledged
While the priority claim or certified copy filed will be placed in the file record, neither will be reviewed and the patent when published will not include the priority claim.
See 37 CFR 1.55(a)(2).
- not acknowledged since the processing fee in 37 CFR 1.17(i) has not been received.
4. For utility and plant applications filed on or after November 29, 2000, the priority claim is not entered because the claim was not presented within the time limit required by 37 CFR 1.55(a)(1). A petition to accept a delayed claim for priority under 35 U.S.C. 119(a) - (d) or (f), or 365(a) may be filed. See 37 CFR 1.55(c) and MPEP 201.14(a).

Kam Sain, FOR
571-272-4200 or 1-888-786-0101
Application Assistance Unit
Office of Data Management



UNITED STATES PATENT AND TRADEMARK OFFICE

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United States Patent and Trademark Office
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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
13/685,544	11/26/2012	Sami Vaarala	290.1078CON	4882

33369 7590 01/20/2017
FASTH LAW OFFICES (ROLF FASTH)
1206 Stanridge Drive
Raleigh, NC 27613-7063

EXAMINER

TOWFIGHI, AFSHAWN M

ART UNIT	PAPER NUMBER
2469	

NOTIFICATION DATE	DELIVERY MODE
01/20/2017	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):

sloan.smith@fasthlaw.com

Corrected Notice of Allowability	Application No. 13/685,544	Applicant(s) VAARALA ET AL.	
	Examiner AFSHAWN TOWFIGHI	Art Unit 2469	AIA (First Inventor to File) 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 claims filed 12/9/16.
 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 30-33 (renumbered 1-4). 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. <input type="checkbox"/> Notice of References Cited (PTO-892) | 5. <input checked="" type="checkbox"/> Examiner's Amendment/Comment |
| 2. <input type="checkbox"/> Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date ____ | 6. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance |
| 3. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit
of Biological Material | 7. <input type="checkbox"/> Other ____. |
| 4. <input type="checkbox"/> Interview Summary (PTO-413),
Paper No./Mail Date ____ . | |

/AFSHAWN TOWFIGHI/
Primary Examiner, Art Unit 2469

DETAILED ACTION

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

EXAMINER'S AMENDMENT

2. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Rolf Fasth on 10/8/13.

The application has been amended as follows:

Lines 4-5 of claim 30 should be replaced with "*the first computer and the second computer negotiating and exchanging keys with one another according to a key exchange protocol to establish the secure connection between the first computer and the second computer via the intermediate computer, the secure connection having a source address of the first computer as a first end point and a destination address of the second computer as a second end point of the secure connection,*".

Allowable Subject Matter

3. Claims 30-33 (renumbered 1-4) (amended) are allowed.

4. The following is an examiner's statement of reasons for allowance:

Amended claims 30-33 (renumbered 1-4) are allowable over prior art since the prior art reference(s) taken individually or in combination fails to particularly disclose, fairly suggests, or render obvious as argued by the applicant which examiner considers as persuasive as set forth above. Additional reasons for allowance can be found in the Notice of Allowance for parent application 10/500,930 dated 1/12/12.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to AFSHAWN TOWFIGHI whose telephone number is (571)270-7296. The examiner can normally be reached on Monday - Friday 9:00 A.M. to 6:00 P.M..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ian Moore can be reached on (571)272-3085. 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.

/AFSHAWN TOWFIGHI/

Primary Examiner, Art Unit 2469

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of

Sami Vaarala, Antti Nuopponen

Art Unit 2469
Confirmation No. 4882

Serial No. 13/685,544

CERTIFICATE OF MAILING

Filed: 26 November 2012

I HEREBY CERTIFY THAT THIS PAPER AND THE DOCUMENTS REFERRED TO AS BEING ATTACHED OR ENCLOSED HERewith ARE BEING SUBMITTED ELECTRONICALLY TO THE UNITED STATES PATENT AND TRADEMARK OFFICE ON **28 December 2016**.

For: METHOD AND SYSTEM FOR
SENDING A MESSAGE
THROUGH A SECURE
CONNECTION

/rfasth/

Examiner: Afshawn M. Towfighi

Rolf Fasth
Attorney for Applicant

Date: 28 December 2016

TRANSMITTAL LETTER

ELECTRONIC SUBMISSION

COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, VA 22313-1450

In connection with the issuance of a patent, enclosed for filing is the above-referenced application are the following:

- (X) Inventors' oath or declaration
- (X) The fee has already been deducted from Account No. 06-0243.
- (X) The Commissioner is hereby authorized to charge any additional fees which may be required in connection with the issuance of a patent or credit over-payment to Account No. 06-0243.

Respectfully submitted,

FASTH LAW OFFICES

/rfasth/

Rolf Fasth
Registration No. 36,999

FASTH LAW OFFICES
1206 Stanridge Drive
Raleigh, NC 27613-7063

Telephone: (910) 687-0001
Facsimile: (919) 882-1265
Email: rolf.fasth@fasthlaw.com

Attorney Ref. No. 290.1078CON

**COMBINED DECLARATION AND POWER OF ATTORNEY
FOR PATENT APPLICATION**

As a below named inventor, I hereby declare that:

The below-identified application was made or was authorized to be made by me. I believe I am the original and first inventor or an original joint and first inventor of the subject matter which is claimed and for which a patent is sought on the invention entitled METHOD AND SYSTEM FOR SENDING A MESSAGE THROUGH A SECURE CONNECTION, the specification of which is attached hereto.

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

The undersigned hereby authorizes Rolf Fasth, the U.S. attorney named herein, to accept and follow instructions from Boco IP Oy Ab as to any action to be taken in the Patent and Trademark Office regarding this application without direct communication between Rolf Fasth and the undersigned. In the event of a change in the persons from whom instructions may be taken, Rolf Fasth will be so notified by the undersigned.

As a named inventor, I hereby appoint Rolf Fasth, Registration No. 36,999, to prosecute this application, to file a corresponding international application, and to transact all business in the Patent and Trademark Office connected therewith.

Address all telephone calls to Rolf Fasth at telephone number (910) 687-0001; fax number (910) 295-2152.

Address all correspondence to:

~~Rolf Fasth
FASTH LAW OFFICES
26 Pinetrest Plaza, Suite 2
Southern Pines, NC 28387-4301~~

*Customer No. 33369
(Fasth Law Offices)*

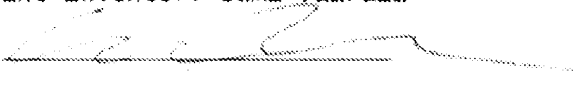
I hereby declare and acknowledge that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable 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

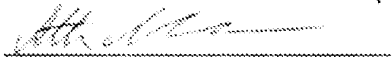
RF 8/15/14 200.1078CON



thereon.

DECLARATION - PAGE 2 OF 3



Legal name of first joint inventor: Sami Vaarala
Inventor's signature 
Date Sep 15, 2014
Residence: Helsinki, Finland
Citizenship: Finland
Post Office address: ~~Neljas Linja 22A~~
LEPPÄVAARANVAIKATU 13A4
02600 ESPOO FINLAND
FIN-00503 Helsinki, Finland

Legal name of second joint inventor: Antti Nuopponen
Inventor's signature 
Date Sep 18, 2014
Residence: Espoo, Finland
Citizenship: Finland
Post Office address: Kaksoiskiventie 7-9 A1
FIN-02760 Espoo, Finland

Electronic Acknowledgement Receipt

EFS ID:	27912720
Application Number:	13685544
International Application Number:	
Confirmation Number:	4882
Title of Invention:	METHOD AND SYSTEM FOR SENDING A MESSAGE THROUGH A SECURE CONNECTION
First Named Inventor/Applicant Name:	Sami Vaarala
Correspondence Address:	ROLF FASTH FASTH LAW OFFICES 26 PINECREST PLAZA, SUITE 2 - SOUTHERN PINES NC 28387-4301 US - -
Filer:	Rolf Fasth/Sloan Smith
Filer Authorized By:	Rolf Fasth
Attorney Docket Number:	290.1078CON
Receipt Date:	28-DEC-2016
Filing Date:	26-NOV-2012
Time Stamp:	10:09:03
Application Type:	Utility under 35 USC 111(a)

Payment information:

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

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Miscellaneous Incoming Letter	TRX.pdf	227445	no	1
			e72c3dc3ba40e79770b11dbde657357dde0cebe5		
Warnings:					
Information:					
2	Oath or Declaration filed	DECL.pdf	538692	no	3
			1403079465e884c9ff475daff96cdb264d346fca		
Warnings:					
Information:					
Total Files Size (in bytes):			766137		
<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.
13/685,544	11/26/2012	Sami Vaarala	290.1078CON	4882

7590 12/23/2016
ROLF FASTH
FASTH LAW OFFICES
26 PINECREST PLAZA, SUITE 2
SOUTHERN PINES, NC 28387-4301

EXAMINER

TOWFIGHI, AFSHAWN M

ART UNIT	PAPER NUMBER
2469	

MAIL DATE	DELIVERY MODE
12/23/2016	PAPER

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 Allowability	Application No. 13/685,544	Applicant(s) VAARALA ET AL.	
	Examiner AFSHAWN TOWFIGHI	Art Unit 2469	AIA (First Inventor to File) 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 claims filed 12/9/16.
 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 30-33(renumbered 1-4). 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 ____.
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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)

- | | |
|---|---|
| <ol style="list-style-type: none"> 1. <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) 2. <input type="checkbox"/> Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date ____ 3. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit
of Biological Material 4. <input type="checkbox"/> Interview Summary (PTO-413),
Paper No./Mail Date ____. | <ol style="list-style-type: none"> 5. <input checked="" type="checkbox"/> Examiner's Amendment/Comment 6. <input type="checkbox"/> Examiner's Statement of Reasons for Allowance 7. <input type="checkbox"/> Other ____. |
|---|---|

/AFSHAWN TOWFIGHI/
Primary Examiner, Art Unit 2469

DETAILED ACTION

1. This Corrected Notice of Allowance is being sent to add pertinent prior art to the record and clarify the current status of the claims as amended by the examiner and the applicant on 12/9/16.

EXAMINER'S COMMENT

2. Claims filed 12/9/16 under Rule 312 are OK to ENTER and include prior examiner amendments to the claims.

Allowable Subject Matter

3. Claims 30-33 (renumbered 1-4) (amended) are allowed.

4. The following is an examiner's statement of reasons for allowance:

Amended claims 30-33 (renumbered 1-4) are allowable over prior art since the prior art reference(s) taken individually or in combination fails to particularly disclose, fairly suggests, or render obvious as argued by the applicant which examiner considers as persuasive as set forth above. Additional reasons for allowance can be found in the Notice of Allowance for parent application 10/500,930 dated 1/12/12.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to AFSHAWN TOWFIGHI whose telephone number is (571)270-7296. The examiner can normally be reached on Monday - Friday 9:00 A.M. to 6:00 P.M..

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/AFSHAWN TOWFIGHI/

Primary Examiner, Art Unit 2469

Application/Control Number: 13/685,544
Art Unit: 2469

Page 4

Notice of References Cited	Application/Control No. 13/685,544	Applicant(s)/Patent Under Reexamination VAARALA ET AL.	
	Examiner AFSHAWN TOWFIGHI	Art Unit 2469	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-6,732,269 B1	05-2004	Baskey; Michael Edward	H04L63/166	713/153
*	B	US-6,718,388 B1	04-2004	Yarborough; William Jordan	H04L63/0227	709/217
*	C	US-6,957,346 B1	10-2005	Kivinen; Tero	H04L12/4633	713/153
*	D	US-6,795,917 B1	09-2004	Ylonen; Tatu	H04L29/06	713/160
*	E	US-7,055,027 B1	05-2006	Gunter; David	H04L63/30	709/223
*	F	US-2002/0091921 A1	07-2002	Kunzinger, Charles A.	H04L63/0428	713/153
*	G	US-2002/0004900 A1	01-2002	PATEL, BAIJU V.	G06Q30/02	713/155
*	H	US-2001/0047487 A1	11-2001	Linnakangas, Tommi	H04L63/0428	726/12
*	I	US-6,985,953 B1	01-2006	Sandhu; Ravi	G06F17/3089	709/225
	J	US-				
	K	US-				
	L	US-				
	M	US-				

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.



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
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Alexandria, Virginia 22313-1450
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APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
13/685,544	11/26/2012	Sami Vaarala	290.1078CON

CONFIRMATION NO. 4882

ROLF FASTH
FASTH LAW OFFICES
26 PINECREST PLAZA, SUITE 2
SOUTHERN PINES, NC 28387-4301

**PUB REQUEST ACCEPTANCE
LETTER**



Date Mailed: 12/21/2016

NOTICE OF ACCEPTANCE OF PUBLICATION REQUEST

The request for voluntary publication, amended publication, early publication, redacted publication, republication, corrected publication or revised publication has been received for this application. The request, including payment of any necessary fee(s), is in compliance with 37 CFR 1.215, 1.217, 1.219 or 1.221.

The projected publication date is 03/30/2017.

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

/dterry/

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.

CHANGE OF CORRESPONDENCE ADDRESS <i>Application</i> Address to: Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450	Application Number	13685544
	Filing Date	26 November 2012
	First Named Inventor	Sami Vaarala, Antti Nuopponen
	Art Unit	2469
	Examiner Name	Towfighi, Afshawn M
	Attorney Docket Number	290.1078CON

Please change the Correspondence Address for the above-identified patent application to:

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Address

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This form cannot be used to change the data associated with a Customer Number. To change the data associated with an existing Customer Number use "Request for Customer Number Data Change" (PTO/SB/124).

I am the:

Applicant

Attorney or agent of record. Registration Number 36999.

Registered practitioner named in the application transmittal papers who acts in a representative capacity under 37 CFR 1.34. See 37 CFR 1.33(a)(1). Registration Number _____.

Signature /rfasth/

Typed or Printed Name Rolf Fasth

Date 21 December 2016 Telephone (910)687-0001

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

*Total of 1 forms are submitted.

This collection of information is required by 37 CFR 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.

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.

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Certificate of Mailing or Transmission under 37 CFR 1.8

I hereby certify that this correspondence is being:

- 1. Deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to:

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

on _____,
 Date

- 2. Facsimile transmitted to the United States Patent and Trademark Office, or

OR

- 3. EFS-Web transmitted to the USPTO.

/rfasth/

21 December 2016

Signature

Date

Rolf Fasth

910-687-0001

Typed or printed name

Telephone number

Note: Each paper must have its own certificate of mailing or transmission, or this certificate must identify each submitted paper:

Change of Correspondence Address

for USSN 13/685,544 (1 page)

This collection of information is required by 37 CFR 1.8. 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 1.8 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: **Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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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).
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6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
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9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

Electronic Acknowledgement Receipt

EFS ID:	27857244
Application Number:	13685544
International Application Number:	
Confirmation Number:	4882
Title of Invention:	METHOD AND SYSTEM FOR SENDING A MESSAGE THROUGH A SECURE CONNECTION
First Named Inventor/Applicant Name:	Sami Vaarala
Correspondence Address:	ROLF FASTH FASTH LAW OFFICES 26 PINECREST PLAZA, SUITE 2 - SOUTHERN PINES NC 28387-4301 US - -
Filer:	Rolf Fasth/Sloan Smith
Filer Authorized By:	Rolf Fasth
Attorney Docket Number:	290.1078CON
Receipt Date:	21-DEC-2016
Filing Date:	26-NOV-2012
Time Stamp:	08:24:18
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no
File Listing:	

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Miscellaneous Incoming Letter	CHANGE_CORR.pdf	918849	no	2
			4e7df590c5b06c6d252f0a0178908a34ee586c94		
Warnings:					
Information:					
2	Transmittal Letter	sb0092.pdf	431455	no	2
			3534e177edde8c4053396be338f2c8226cd16fe		
Warnings:					
Information:					
Total Files Size (in bytes):			1350304		
<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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Table with 5 columns: APPLICATION NO., FILING DATE, FIRST NAMED INVENTOR, ATTORNEY DOCKET NO., CONFIRMATION NO.
13/685,544 11/26/2012 Sami Vaarala 290.1078CON 4882

7590 12/16/2016
ROLF FASTH
FASTH LAW OFFICES
26 PINECREST PLAZA, SUITE 2
SOUTHERN PINES, NC 28387-4301

EXAMINER

TOWFIGHI, AFSHAWN M

ART UNIT PAPER NUMBER

2469

MAIL DATE DELIVERY MODE

12/16/2016

PAPER

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.

<i>Applicant-Initiated Interview Summary</i>	Application No. 13/685,544	Applicant(s) VAARALA ET AL.	
	Examiner AFSHAWN TOWFIGHI	Art Unit 2469	

All participants (applicant, applicant's representative, PTO personnel):

- (1) AFSHAWN TOWFIGHI. (3)_____.
- (2) Sloan Smith. (4)_____.

Date of Interview: 09 December 2016.

Type: Telephonic Video Conference
 Personal [copy given to: applicant applicant's representative]

Exhibit shown or demonstration conducted: Yes No.
If Yes, brief description: _____.

Issues Discussed 101 112 102 103 Others
(For each of the checked box(es) above, please describe below the issue and detailed description of the discussion)

Claim(s) discussed: n/a.

Identification of prior art discussed: n/a.

Substance of Interview

(For each issue discussed, provide a detailed description and indicate if agreement was reached. Some topics may include: identification or clarification of a reference or a portion thereof, claim interpretation, proposed amendments, arguments of any applied references etc...)

Examiner and applicant's representative discussed the status of petitions. Examiner confirmed that the Petition for unintentional delayed claim priority had been granted. Applicant's representative asked about correcting typographical errors in the claim language. Examiner suggested filing an ammendment with the corrections under rule 312.

Applicant recordation instructions: The formal written reply to the last Office action must include the substance of the interview. (See MPEP section 713.04). If a reply to the last Office action has already been filed, applicant is given a non-extendable period of the longer of one month or thirty days from this interview date, or the mailing date of this interview summary form, whichever is later, to file a statement of the substance of the interview

Examiner recordation instructions: Examiners must summarize the substance of any interview of record. A complete and proper recordation of the substance of an interview should include the items listed in MPEP 713.04 for complete and proper recordation including the identification of the general thrust of each argument or issue discussed, a general indication of any other pertinent matters discussed regarding patentability and the general results or outcome of the interview, to include an indication as to whether or not agreement was reached on the issues raised.

Attachment

/AFSHAWN TOWFIGHI/
Primary Examiner, Art Unit 2469

Summary of Record of Interview Requirements

Manual of Patent Examining Procedure (MPEP), Section 713.04, Substance of Interview Must be Made of Record

A complete written statement as to the substance of any face-to-face, video conference, or telephone interview with regard to an application must be made of record in the application whether or not an agreement with the examiner was reached at the interview.

Title 37 Code of Federal Regulations (CFR) § 1.133 Interviews

Paragraph (b)

In every instance where reconsideration is requested in view of an interview with an examiner, a complete written statement of the reasons presented at the interview as warranting favorable action must be filed by the applicant. An interview does not remove the necessity for reply to Office action as specified in §§ 1.111, 1.135. (35 U.S.C. 132)

37 CFR §1.2 Business to be transacted in writing.

All business with the Patent or Trademark Office should be transacted in writing. The personal attendance of applicants or their attorneys or agents at the Patent and Trademark Office is unnecessary. The action of the Patent and Trademark Office will be based exclusively on the written record in the Office. No attention will be paid to any alleged oral promise, stipulation, or understanding in relation to which there is disagreement or doubt.

The action of the Patent and Trademark Office cannot be based exclusively on the written record in the Office if that record is itself incomplete through the failure to record the substance of interviews.

It is the responsibility of the applicant or the attorney or agent to make the substance of an interview of record in the application file, unless the examiner indicates he or she will do so. It is the examiner's responsibility to see that such a record is made and to correct material inaccuracies which bear directly on the question of patentability.

Examiners must complete an Interview Summary Form for each interview held where a matter of substance has been discussed during the interview by checking the appropriate boxes and filling in the blanks. Discussions regarding only procedural matters, directed solely to restriction requirements for which interview recordation is otherwise provided for in Section 812.01 of the Manual of Patent Examining Procedure, or pointing out typographical errors or unreadable script in Office actions or the like, are excluded from the interview recordation procedures below. Where the substance of an interview is completely recorded in an Examiners Amendment, no separate Interview Summary Record is required.

The Interview Summary Form shall be given an appropriate Paper No., placed in the right hand portion of the file, and listed on the "Contents" section of the file wrapper. In a personal interview, a duplicate of the Form is given to the applicant (or attorney or agent) at the conclusion of the interview. In the case of a telephone or video-conference interview, the copy is mailed to the applicant's correspondence address either with or prior to the next official communication. If additional correspondence from the examiner is not likely before an allowance or if other circumstances dictate, the Form should be mailed promptly after the interview rather than with the next official communication.

The Form provides for recordation of the following information:

- Application Number (Series Code and Serial Number)
- Name of applicant
- Name of examiner
- Date of interview
- Type of interview (telephonic, video-conference, or personal)
- Name of participant(s) (applicant, attorney or agent, examiner, other PTO personnel, etc.)
- An indication whether or not an exhibit was shown or a demonstration conducted
- An identification of the specific prior art discussed
- An indication whether an agreement was reached and if so, a description of the general nature of the agreement (may be by attachment of a copy of amendments or claims agreed as being allowable). Note: Agreement as to allowability is tentative and does not restrict further action by the examiner to the contrary.
- The signature of the examiner who conducted the interview (if Form is not an attachment to a signed Office action)

It is desirable that the examiner orally remind the applicant of his or her obligation to record the substance of the interview of each case. It should be noted, however, that the Interview Summary Form will not normally be considered a complete and proper recordation of the interview unless it includes, or is supplemented by the applicant or the examiner to include, all of the applicable items required below concerning the substance of the interview.

A complete and proper recordation of the substance of any interview should include at least the following applicable items:

- 1) A brief description of the nature of any exhibit shown or any demonstration conducted,
- 2) an identification of the claims discussed,
- 3) an identification of the specific prior art discussed,
- 4) an identification of the principal proposed amendments of a substantive nature discussed, unless these are already described on the Interview Summary Form completed by the Examiner,
- 5) a brief identification of the general thrust of the principal arguments presented to the examiner,
(The identification of arguments need not be lengthy or elaborate. A verbatim or highly detailed description of the arguments is not required. The identification of the arguments is sufficient if the general nature or thrust of the principal arguments made to the examiner can be understood in the context of the application file. Of course, the applicant may desire to emphasize and fully describe those arguments which he or she feels were or might be persuasive to the examiner.)
- 6) a general indication of any other pertinent matters discussed, and
- 7) if appropriate, the general results or outcome of the interview unless already described in the Interview Summary Form completed by the examiner.

Examiners are expected to carefully review the applicant's record of the substance of an interview. If the record is not complete and accurate, the examiner will give the applicant an extendable one month time period to correct the record.

Examiner to Check for Accuracy

If the claims are allowable for other reasons of record, the examiner should send a letter setting forth the examiner's version of the statement attributed to him or her. If the record is complete and accurate, the examiner should place the indication, "Interview Record OK" on the paper recording the substance of the interview along with the date and the examiner's initials.



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Table with 5 columns: APPLICATION NO., FILING DATE, FIRST NAMED INVENTOR, ATTORNEY DOCKET NO., CONFIRMATION NO.
Row 1: 13/685,544, 11/26/2012, Sami Vaarala, 290.1078CON, 4882
Row 2: 7590, 12/16/2016
Row 3: ROLF FASTH, FASTH LAW OFFICES, 26 PINECREST PLAZA, SUITE 2, SOUTHERN PINES, NC 28387-4301
Row 4: EXAMINER TOWFIGHI, AFSHAWN M
Row 5: ART UNIT 2469, PAPER NUMBER
Row 6: MAIL DATE 12/16/2016, DELIVERY MODE PAPER

NOTICE REQUIRING INVENTOR'S OATH OR DECLARATION

[X] An inventor's oath or declaration in compliance with 37 CFR 1.63 or substitute statement in compliance with 37 CFR 1.64 executed by or with respect to each inventor has not yet been submitted.

The inventor's oath or declaration or substitute statement dated _____ is defective. The inventor's oath or declaration does not comply with 37 CFR 1.63 or the substitute statement does not comply with 37 CFR 1.64 because it:

- [] does not include a statement that the person executing the oath or declaration or substitute statement believes the named inventor or joint inventor to be the original inventor or an original joint inventor of a claimed invention in the application for which the oath or declaration is being submitted.
[] does not state that the application was made or was authorized to be made by the person executing the oath or declaration or substitute statement.
[] does not acknowledge that any willful false statement made in such oath or declaration or substitute statement is punishable under section 1001 of title 18 by fine or imprisonment of not more than 5 years, or both.
[] does not identify the person executing the oath or declaration or substitute statement by his or her legal name.
[] does not identify the application to which the oath or declaration or substitute statement is directed.
[] Other: _____

The substitute statement dated _____ does not comply with 37 CFR 1.64 because it:

- [] does not identify the inventor with respect to whom the statement applies.
[] does not identify the relationship to the non-signing inventor.
[] does not identify the circumstances permitting execution of the statement.
[] was signed by someone other than the applicant.
[] Other: _____

An oath or declaration in compliance with 37 CFR 1.63, or a substitute statement in compliance with 37 CFR 1.64, executed by or with respect to each inventor MUST be filed no later than the date on which the issue fee is paid. See 35 U.S.C. 115(f). Failure to timely comply will result in ABANDONMENT of this application. This period for reply is not extendable under 37 CFR 1.136(a).

Questions relating to this Notice should be directed to the Application Assistance Unit at 571-272-4200.

(571)-272-4200 or 1(888)-786-0101
Patent Publication Branch
Office of Data Management



UNITED STATES PATENT AND TRADEMARK OFFICE

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NOTICE OF ALLOWANCE AND FEE(S) DUE

7590 12/15/2016
ROLF FASTH
FASTH LAW OFFICES
26 PINECREST PLAZA, SUITE 2
SOUTHERN PINES, NC 28387-4301

EXAMINER
TOWFIGHI, AFSHAWN M

ART UNIT PAPER NUMBER
2469

DATE MAILED: 12/15/2016

Table with 5 columns: APPLICATION NO., FILING DATE, FIRST NAMED INVENTOR, ATTORNEY DOCKET NO., CONFIRMATION NO.
13/685,544 11/26/2012 Sami Vaarala 290.1078CON 4882

TITLE OF INVENTION: METHOD AND SYSTEM FOR SENDING A MESSAGE THROUGH A SECURE CONNECTION

Table with 7 columns: APPLN. TYPE, ENTITY STATUS, ISSUE FEE DUE, PUBLICATION FEE DUE, PREV. PAID ISSUE FEE, TOTAL FEE(S) DUE, DATE DUE
nonprovisional UNDISCOUNTED \$960 \$0 \$960 \$960 03/15/2017

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: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

**Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE
 Commissioner for Patents
 P.O. Box 1450
 Alexandria, Virginia 22313-1450
 or Fax (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)

7590 12/15/2016
ROLF FASTH
 FASTH LAW OFFICES
 26 PINECREST PLAZA, SUITE 2
 SOUTHERN PINES, NC 28387-4301

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

Certificate of Mailing or Transmission

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

_____ (Depositor's name)
_____ (Signature)
_____ (Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
13/685,544	11/26/2012	Sami Vaarala	290.1078CON	4882

TITLE OF INVENTION: METHOD AND SYSTEM FOR SENDING A MESSAGE THROUGH A SECURE CONNECTION

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	UNDISCOUNTED	\$960	\$0	\$960	\$960	03/15/2017

EXAMINER	ART UNIT	CLASS-SUBCLASS
TOWFIGHI, AFSHAWN M	2469	713-171000

<p>1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).</p> <p><input type="checkbox"/> Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.</p> <p><input type="checkbox"/> "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.</p>	<p>2. For printing on the patent front page, list</p> <p>(1) The names of up to 3 registered patent attorneys or agents OR, alternatively, 1 _____</p> <p>(2) The name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed. 2 _____</p> <p>3 _____</p>
---	---

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 has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment.

(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

<p>4a. The following fee(s) are submitted:</p> <p><input type="checkbox"/> Issue Fee</p> <p><input type="checkbox"/> Publication Fee (No small entity discount permitted)</p> <p><input type="checkbox"/> Advance Order - # of Copies _____</p>	<p>4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above)</p> <p><input type="checkbox"/> A check is enclosed.</p> <p><input type="checkbox"/> Payment by credit card. Form PTO-2038 is attached.</p> <p><input type="checkbox"/> The director is hereby authorized to charge the required fee(s), any deficiency, or credits any overpayment, to Deposit Account Number _____ (enclose an extra copy of this form).</p>
---	---

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

Applicant certifying micro entity status. See 37 CFR 1.29

Applicant asserting small entity status. See 37 CFR 1.27

Applicant changing to regular undiscounted fee status.

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

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

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

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

Authorized Signature _____ Date _____

Typed or printed name _____ Registration No. _____



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Table with 5 columns: APPLICATION NO., FILING DATE, FIRST NAMED INVENTOR, ATTORNEY DOCKET NO., CONFIRMATION NO.
13/685,544 11/26/2012 Sami Vaarala 290.1078CON 4882

7590 12/15/2016
ROLF FASTH
FASTH LAW OFFICES
26 PINECREST PLAZA, SUITE 2
SOUTHERN PINES, NC 28387-4301

EXAMINER

TOWFIGHI, AFSHAWN M

ART UNIT PAPER NUMBER

2469

DATE MAILED: 12/15/2016

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 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, 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. 13/685,544	Applicant(s) VAARALA ET AL.	
	Examiner AFSHAWN TOWFIGHI	Art Unit 2469	AIA (First Inventor to File) 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 claims filed 11/26/12.
 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 30-33 (renumbered 1-4). 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)

- | | |
|--|---|
| <ol style="list-style-type: none"> 1. <input type="checkbox"/> Notice of References Cited (PTO-892) 2. <input type="checkbox"/> Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date _____ 3. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit
of Biological Material 4. <input type="checkbox"/> Interview Summary (PTO-413),
Paper No./Mail Date _____. | <ol style="list-style-type: none"> 5. <input checked="" type="checkbox"/> Examiner's Amendment/Comment 6. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance 7. <input type="checkbox"/> Other _____. |
|--|---|

/AFSHAWN TOWFIGHI/
Primary Examiner, Art Unit 2469

DETAILED ACTION

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

EXAMINER'S AMENDMENT

2. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Rolf Fasth on 10/8/13.

The application has been amended as follows:

Lines 3-5 of claim 1 should be replaced with "*the first computer and the second computer negotiating and exchanging keys with one another according to a key exchange protocol to establish the secure connection between the first computer and the second computer via the intermediate computer, the secure connection having a source address of the first computer as a first end point and a destination address of the second computer as a second end point of the secure connection,*".

Allowable Subject Matter

3. Claims 30-33 (renumbered 1-4) (amended) are allowed.

4. The following is an examiner's statement of reasons for allowance:

Amended claims 30-33 (renumbered 1-4) are allowable over prior art since the prior art reference(s) taken individually or in combination fails to particularly disclose, fairly suggests, or render obvious as argued by the applicant which examiner considers as persuasive as set forth above. Additional reasons for allowance can be found in the Notice of Allowance for parent application 10/500,930 dated 1/12/12.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion


Any inquiry concerning this communication or earlier communications from the examiner should be directed to AFSHAWN TOWFIGHI whose telephone number is (571)270-7296. The examiner can normally be reached on Monday - Friday 9:00 A.M. to 6:00 P.M..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ian Moore can be reached on (571)272-3085. 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.

/AFSHAWN TOWFIGHI/

Primary Examiner, Art Unit 2469

Search Notes 	Application/Control No. 13685544	Applicant(s)/Patent Under Reexamination VAARALA ET AL.
	Examiner AFSHAWN TOWFIGHI	Art Unit 2469

CPC- SEARCHED		
Symbol	Date	Examiner

CPC COMBINATION SETS - SEARCHED		
Symbol	Date	Examiner

US CLASSIFICATION SEARCHED			
Class	Subclass	Date	Examiner
709	236, 239, 245	10/7/2013	AT

SEARCH NOTES		
Search Notes	Date	Examiner
Inventor Search in EAST - see search history printout	10/7/2013 (Updated 12/6/16)	AT
Assignee Search in EAST - see search history printout	10/7/2013(Updated 12/6/16)	AT
EAST (USPAT, USPGPUB, EPO, JPO) - see search history printout	10/7/2013	AT

INTERFERENCE SEARCH			
US Class/ CPC Symbol	US Subclass / CPC Group	Date	Examiner
	Interference Search - see search history printout	10/7/2013	AT

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Issue Classification 	Application/Control No. 13685544	Applicant(s)/Patent Under Reexamination VAARALA ET AL.	
	Examiner AFSHAWN TOWFIGHI	Art Unit 2469	

CPC					
Symbol				Type	Version
H04L	9		3244	F	2013-01-01
H04L	29		1216	A	2013-01-01
H04L	29		12481	A	2013-01-01
H04L	29		1249	I	2013-01-01
H04L	61		157	A	2013-01-01
H04L	61		2557	A	2013-01-01
H04L	61		256	I	2013-01-01
H04L	63		0272	I	2013-01-01
H04L	63		0428	I	2013-01-01
H04L	63		061	I	2013-01-01
H04L	63		08	I	2013-01-01
H04L	63		164	I	2013-01-01
H04L	9		0844	I	2013-01-01
H04L	2209		80	A	2013-01-01

CPC Combination Sets				
Symbol	Type	Set	Ranking	Version

NONE		Total Claims Allowed:	
(Assistant Examiner)	(Date)	4	
/AFSHAWN TOWFIGHI/ Primary Examiner.Art Unit 2469	12/06/2016	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	1

Issue Classification 	Application/Control No. 13685544	Applicant(s)/Patent Under Reexamination VAARALA ET AL.
	Examiner AFSHAWN TOWFIGHI	Art Unit 2469

US ORIGINAL CLASSIFICATION						INTERNATIONAL CLASSIFICATION														
CLASS			SUBCLASS			CLAIMED					NON-CLAIMED									
713			171			H	0	4	L	9 / 32 (2006.0)										
CROSS REFERENCE(S)						G	0	6	F	15 / 16 (2006.0)										
CLASS	SUBCLASS (ONE SUBCLASS PER BLOCK)																			
709	229																			

NONE		Total Claims Allowed:	
(Assistant Examiner)		4	
(Date)			
/AFSHAWN TOWFIGHI/ Primary Examiner.Art Unit 2469	12/06/2016	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	1

Issue Classification 	Application/Control No. 13685544	Applicant(s)/Patent Under Reexamination VAARALA ET AL.
	Examiner AFSHAWN TOWFIGHI	Art Unit 2469

<input type="checkbox"/> Claims renumbered in the same order as presented by applicant		<input type="checkbox"/> CPA		<input type="checkbox"/> T.D.		<input type="checkbox"/> R.1.47									
Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original
	1		17	4	33										
	2		18												
	3		19												
	4		20												
	5		21												
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	12		28												
	13		29												
	14	1	30												
	15	2	31												
	16	3	32												

NONE		Total Claims Allowed:	
		4	
(Assistant Examiner)	(Date)	O.G. Print Claim(s)	O.G. Print Figure
/AFSHAWN TOWFIGHI/ Primary Examiner.Art Unit 2469	12/06/2016	1	1
(Primary Examiner)	(Date)		



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BIB DATA SHEET

CONFIRMATION NO. 4882

SERIAL NUMBER	FILING or 371(c) DATE	CLASS	GROUP ART UNIT	ATTORNEY DOCKET NO.		
13/685,544	11/26/2012	713	2469	290.1078CON		
APPLICANTS MPH TECHNOLOGIES OY, Espoo, FINLAND;						
INVENTORS Sami Vaarala, Espoo, FINLAND; Antti Nuopponen, Espoo, FINLAND;						
** CONTINUING DATA ***** This application is a CON of 10/500,930 10/19/2005 PAT 8346949 which is a 371 of PCT/FI03/00045 01/21/2003						
** FOREIGN APPLICATIONS ***** FINLAND 20020112 01/22/2002						
** IF REQUIRED, FOREIGN FILING LICENSE GRANTED ** 12/17/2012						
Foreign Priority claimed	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		STATE OR COUNTRY	SHEETS DRAWINGS	TOTAL CLAIMS	INDEPENDENT CLAIMS
35 USC 119(a-d) conditions met	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Met after Allowance	FINLAND	6	4	1
Verified and	/AFSHAWN M TOWFIGHI/	Initials				
Acknowledged	Examiner's Signature					
ADDRESS ROLF FASTH FASTH LAW OFFICES 26 PINECREST PLAZA, SUITE 2 SOUTHERN PINES, NC 28387-4301						
TITLE METHOD AND SYSTEM FOR SENDING A MESSAGE THROUGH A SECURE CONNECTION						
FILING FEE RECEIVED 1710	FEES: Authority has been given in Paper No. _____ to charge/credit DEPOSIT ACCOUNT No. _____ for following:		<input type="checkbox"/> All Fees			
			<input type="checkbox"/> 1.16 Fees (Filing)			
			<input type="checkbox"/> 1.17 Fees (Processing Ext. of time)			
			<input type="checkbox"/> 1.18 Fees (Issue)			
			<input type="checkbox"/> Other _____			
				<input type="checkbox"/> Credit		

EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	2	"20010047487"	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L2	6882	709/236.ccls. or 709/245.ccls.	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L3	27	L2 and secure near10 key near10 exchang\$3	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L4	862	ipsec same tunnel\$3 same IKE	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L5	271	ipsec same tunnel\$3 same IKE same (gateway or proxy or intermediate)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L6	3	"US 20060173968"	US-PGPUB; USPAT; USOCR; DERWENT	OR	OFF	2016/12/06 18:36
L7	19	ipsec same tunnel\$3 same IKE same (gateway or proxy or intermediate) and cookie	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L8	24	ike with responder with cookie	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L9	7044	ipsec same (ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L10	6367	ipsec with(ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L11	6367	ipsec with (ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L12	4519	ipsec near5(ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L13	4519	ipsec near5 (ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L14	2	"20010047487"	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L15	6882	709/236.ccls. or 709/245.ccls.	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L16	27	L15 and secure near10 key near10 exchang\$3	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L17	862	ipsec same tunnel\$3 same IKE	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L18	271	ipsec same tunnel\$3 same IKE same (gateway or proxy or intermediate)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L19	3	"US 20060173968"	US-PGPUB; USPAT; USOCR; DERWENT	OR	OFF	2016/12/06 18:36
L20	19	ipsec same tunnel\$3 same IKE same (gateway or proxy or intermediate) and cookie	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36

L21	24	ike with responder with cookie	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L22	7044	ipsec same (ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L23	6367	ipsec with(ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L24	6367	ipsec with (ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L25	4519	ipsec near5(ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L26	4519	ipsec near5 (ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L27	2	"20010047487"	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L28	6882	709/236.ccls. or 709/245.ccls.	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L29	27	L28 and secure near10 key near10 exchang\$3	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L30	862	ipsec same tunnel\$3 same IKE	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L31	271	ipsec same tunnel\$3 same IKE same (gateway or proxy or intermediate)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L32	3	"US 20060173968"	US-PGPUB; USPAT; USOCR; DERWENT	OR	OFF	2016/12/06 18:36
L33	19	ipsec same tunnel\$3 same IKE same (gateway or proxy or intermediate) and cookie	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L34	24	ike with responder with cookie	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L35	7044	ipsec same (ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L36	6367	ipsec with(ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L37	6367	ipsec with (ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L38	4519	ipsec near5(ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L39	4519	ipsec near5 (ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L40	2	"20010047487"	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L41	6882	709/236.ccls. or 709/245.ccls.	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L42	27	L41 and secure near10 key near10 exchang\$3	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L43	862	ipsec same tunnel\$3 same IKE	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L44	271	ipsec same tunnel\$3 same IKE same (gateway or proxy or intermediate)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L45	3	"US 20060173968"	US-PGPUB; USPAT; USOCR;	OR	OFF	2016/12/06 18:36

			DERWENT			
L46	19	ipsec same tunnel\$3 same IKE same (gateway or proxy or intermediate) and cookie	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L47	24	ike with responder with cookie	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L48	7044	ipsec same (ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L49	6367	ipsec with(ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L50	6367	ipsec with (ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L51	4519	ipsec near5(ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L52	4519	ipsec near5 (ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L53	16	"7882538"	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L54	23	"6744741"	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L55	42	"7055027"	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L56	2	"20010047487"	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L57	6882	709/236.ccls. or 709/245.ccls.	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L58	27	L57 and secure near10 key near10 exchang\$3	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L59	862	ipsec same tunnel\$3 same IKE	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L60	271	ipsec same tunnel\$3 same IKE same (gateway or proxy or intermediate)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L61	3	"US 20060173968"	US-PGPUB; USPAT; USOCR; DERWENT	OR	OFF	2016/12/06 18:36
L62	19	ipsec same tunnel\$3 same IKE same (gateway or proxy or intermediate) and cookie	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L63	24	ike with responder with cookie	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L64	7044	ipsec same (ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L65	6367	ipsec with(ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L66	6367	ipsec with (ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L67	4519	ipsec near5(ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L68	4519	ipsec near5 (ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L69	2	"20010047487"	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L70	6882	709/236.ccls. or 709/245.ccls.	US-PGPUB;	OR	OFF	2016/12/06

			USPAT			18:36
L71	27	L70 and secure near10 key near10 exchang\$3	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L72	862	ipsec same tunnel\$3 same IKE	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L73	271	ipsec same tunnel\$3 same IKE same (gateway or proxy or intermediate)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L74	3	"US 20060173968"	US-PGPUB; USPAT; USOCR; DERWENT	OR	OFF	2016/12/06 18:36
L75	19	ipsec same tunnel\$3 same IKE same (gateway or proxy or intermediate) and cookie	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L76	24	ike with responder with cookie	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L77	7044	ipsec same (ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L78	6367	ipsec with(ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L79	6367	ipsec with (ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L80	4519	ipsec near5(ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L81	4519	ipsec near5 (ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L82	2	"20010047487"	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L83	6882	709/236.ccls. or 709/245.ccls.	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L84	27	L83 and secure near10 key near10 exchang\$3	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L85	862	ipsec same tunnel\$3 same IKE	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L86	271	ipsec same tunnel\$3 same IKE same (gateway or proxy or intermediate)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L87	3	"US 20060173968"	US-PGPUB; USPAT; USOCR; DERWENT	OR	OFF	2016/12/06 18:36
L88	19	ipsec same tunnel\$3 same IKE same (gateway or proxy or intermediate) and cookie	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L89	24	ike with responder with cookie	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L90	7044	ipsec same (ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L91	6367	ipsec with(ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L92	6367	ipsec with (ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L93	4519	ipsec near5(ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L94	4519	ipsec near5 (ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36

L95	2	"20010047487"	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L96	6882	709/236.ccls. or 709/245.ccls.	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L97	27	L96 and secure near10 key near10 exchang\$3	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L98	862	ipsec same tunnel\$3 same IKE	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L99	271	ipsec same tunnel\$3 same IKE same (gateway or proxy or intermediate)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L100	3	"US 20060173968"	US-PGPUB; USPAT; USOCR; DERWENT	OR	OFF	2016/12/06 18:36
L101	19	ipsec same tunnel\$3 same IKE same (gateway or proxy or intermediate) and cookie	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L102	24	ike with responder with cookie	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L103	7044	ipsec same (ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L104	6367	ipsec with(ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L105	6367	ipsec with (ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L106	4519	ipsec near5(ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L107	4519	ipsec near5 (ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L108	16	"7882538"	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L109	23	"6744741"	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L110	42	"7055027"	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L111	11	((SAMI) near2 (VAARALA)).INV.	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L112	11	((ANTTI) near2 (NUOPPONEN)).INV.	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L113	11	L111 or L112	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L114	10	L113 and (secure adj connection).clm.	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L115	9	L113 and (secure adj connection with address).clm.	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L116	3	L113 and (secure adj connection with intermediate with address).clm.	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L120	2	"20010047487"	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L121	6882	709/236.ccls. or 709/245.ccls.	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L122	27	L121 and secure near10 key near10 exchang\$3	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36

L123	862	ipsec same tunnel\$3 same IKE	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L124	271	ipsec same tunnel\$3 same IKE same (gateway or proxy or intermediate)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L125	3	"US 20060173968"	US-PGPUB; USPAT; USOCR; DERWENT	OR	OFF	2016/12/06 18:36
L126	19	ipsec same tunnel\$3 same IKE same (gateway or proxy or intermediate) and cookie	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L127	24	ike with responder with cookie	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L128	7044	ipsec same (ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L129	6367	ipsec with(ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L130	6367	ipsec with (ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L131	4519	ipsec near5(ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L132	4519	ipsec near5 (ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L133	2	"20010047487"	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L134	6882	709/236.ccls. or 709/245.ccls.	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L135	27	L134 and secure near10 key near10 exchang\$3	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L136	862	ipsec same tunnel\$3 same IKE	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L137	271	ipsec same tunnel\$3 same IKE same (gateway or proxy or intermediate)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L138	3	"US 20060173968"	US-PGPUB; USPAT; USOCR; DERWENT	OR	OFF	2016/12/06 18:36
L139	19	ipsec same tunnel\$3 same IKE same (gateway or proxy or intermediate) and cookie	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L140	24	ike with responder with cookie	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L141	7044	ipsec same (ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L142	6367	ipsec with(ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L143	6367	ipsec with (ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L144	4519	ipsec near5(ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L145	4519	ipsec near5 (ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L146	2	"20010047487"	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L147	6882	709/236.ccls. or 709/245.ccls.	US-PGPUB;	OR	OFF	2016/12/06

			USPAT			18:36
L148	27	L147 and secure near10 key near10 exchang\$3	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L149	862	ipsec same tunnel\$3 same IKE	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L150	271	ipsec same tunnel\$3 same IKE same (gateway or proxy or intermediate)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L151	3	"US 20060173968"	US-PGPUB; USPAT; USOCR; DERWENT	OR	OFF	2016/12/06 18:36
L152	19	ipsec same tunnel\$3 same IKE same (gateway or proxy or intermediate) and cookie	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L153	24	ike with responder with cookie	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L154	7044	ipsec same (ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L155	6367	ipsec with(ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L156	6367	ipsec with (ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L157	4519	ipsec near5(ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L158	4519	ipsec near5 (ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L159	2	"20010047487"	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L160	6882	709/236.ccls. or 709/245.ccls.	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L161	27	L160 and secure near10 key near10 exchang\$3	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L162	862	ipsec same tunnel\$3 same IKE	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L163	271	ipsec same tunnel\$3 same IKE same (gateway or proxy or intermediate)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L164	3	"US 20060173968"	US-PGPUB; USPAT; USOCR; DERWENT	OR	OFF	2016/12/06 18:36
L165	19	ipsec same tunnel\$3 same IKE same (gateway or proxy or intermediate) and cookie	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L166	24	ike with responder with cookie	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L167	7044	ipsec same (ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L168	6367	ipsec with(ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L169	6367	ipsec with (ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L170	4519	ipsec near5(ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L171	4519	ipsec near5 (ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36

L172	16	"7882538"	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L173	23	"6744741"	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L174	42	"7055027"	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L175	2	"20010047487"	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L176	6882	709/236.ccls. or 709/245.ccls.	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L177	27	L176 and secure near10 key near10 exchang\$3	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L178	862	ipsec same tunnel\$3 same IKE	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L179	271	ipsec same tunnel\$3 same IKE same (gateway or proxy or intermediate)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L180	3	"US 20060173968"	US-PGPUB; USPAT; USOCR; DERWENT	OR	OFF	2016/12/06 18:36
L181	19	ipsec same tunnel\$3 same IKE same (gateway or proxy or intermediate) and cookie	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L182	24	ike with responder with cookie	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L183	7044	ipsec same (ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L184	6367	ipsec with(ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L185	6367	ipsec with (ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L186	4519	ipsec near5(ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L187	4519	ipsec near5 (ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L188	2	"20010047487"	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L189	6882	709/236.ccls. or 709/245.ccls.	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L190	27	L189 and secure near10 key near10 exchang\$3	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L191	862	ipsec same tunnel\$3 same IKE	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L192	271	ipsec same tunnel\$3 same IKE same (gateway or proxy or intermediate)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L193	3	"US 20060173968"	US-PGPUB; USPAT; USOCR; DERWENT	OR	OFF	2016/12/06 18:36
L194	19	ipsec same tunnel\$3 same IKE same (gateway or proxy or intermediate) and cookie	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L195	24	ike with responder with cookie	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L196	7044	ipsec same (ssl or tls)	US-PGPUB;	OR	OFF	2016/12/06

			USPAT			18:36
L197	6367	ipsec with(ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L198	6367	ipsec with (ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L199	4519	ipsec near5(ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L200	4519	ipsec near5 (ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L201	2	"20010047487"	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L202	6882	709/236.ccls. or 709/245.ccls.	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L203	27	L202 and secure near10 key near10 exchang\$3	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L204	862	ipsec same tunnel\$3 same IKE	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L205	271	ipsec same tunnel\$3 same IKE same (gateway or proxy or intermediate)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L206	3	"US 20060173968"	US-PGPUB; USPAT; USOCR; DERWENT	OR	OFF	2016/12/06 18:36
L207	19	ipsec same tunnel\$3 same IKE same (gateway or proxy or intermediate) and cookie	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L208	24	ike with responder with cookie	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L209	7044	ipsec same (ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L210	6367	ipsec with(ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L211	6367	ipsec with (ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L212	4519	ipsec near5(ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L213	4519	ipsec near5 (ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L214	2	"20010047487"	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L215	6882	709/236.ccls. or 709/245.ccls.	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L216	27	L215 and secure near10 key near10 exchang\$3	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L217	862	ipsec same tunnel\$3 same IKE	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L218	271	ipsec same tunnel\$3 same IKE same (gateway or proxy or intermediate)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L219	3	"US 20060173968"	US-PGPUB; USPAT; USOCR; DERWENT	OR	OFF	2016/12/06 18:36
L220	19	ipsec same tunnel\$3 same IKE same (gateway or proxy or intermediate) and cookie	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36

L221	24	ike with responder with cookie	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L222	7044	ipsec same (ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L223	6367	ipsec with(ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L224	6367	ipsec with (ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L225	4519	ipsec near5(ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L226	4519	ipsec near5 (ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L227	16	"7882538"	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L228	23	"6744741"	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L229	42	"7055027"	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L230	11	((SAMI) near2 (VAARALA)).INV.	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L231	11	((ANTTI) near2 (NUOPPONEN)).INV.	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L232	11	L230 or L231	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L233	10	L232 and (secure adj connection).clm.	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L234	9	L232 and (secure adj connection with address).clm.	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L235	3	L232 and (secure adj connection with intermediate with address).clm.	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L236	149692	("6732269" "6718388" "6957346" "6795917").pn"	US-PGPUB; USPAT; EPO; JPO	OR	ON	2016/12/06 18:36
L237	4	("6732269" "6718388" "6957346" "6795917").pn.	US-PGPUB; USPAT; EPO; JPO	OR	ON	2016/12/06 18:36
L238	6882	709/236.ccls. or 709/245.ccls.	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L239	7044	ipsec same (ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L240	6367	ipsec with(ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L241	6367	ipsec with (ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L242	4519	ipsec near5(ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L243	6882	709/236.ccls. or 709/245.ccls.	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L244	7044	ipsec same (ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L245	6367	ipsec with(ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L246	6367	ipsec with (ssl or tls)	US-PGPUB;	OR	OFF	2016/12/06

			USPAT			18:36
L247	4519	ipsec near5(ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L248	6882	709/236.ccls. or 709/245.ccls.	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L249	7044	ipsec same (ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L250	6367	ipsec with(ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L251	6367	ipsec with (ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L252	4519	ipsec near5(ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L253	6882	709/236.ccls. or 709/245.ccls.	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L254	7044	ipsec same (ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L255	6367	ipsec with(ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L256	6367	ipsec with (ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L257	4519	ipsec near5(ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L258	16	"7882538"	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L259	6882	709/236.ccls. or 709/245.ccls.	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L260	7044	ipsec same (ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L261	6367	ipsec with(ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L262	6367	ipsec with (ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L263	4519	ipsec near5(ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L264	6882	709/236.ccls. or 709/245.ccls.	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L265	7044	ipsec same (ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L266	6367	ipsec with(ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L267	6367	ipsec with (ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L268	4519	ipsec near5(ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L269	6882	709/236.ccls. or 709/245.ccls.	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L270	7044	ipsec same (ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L271	6367	ipsec with(ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L272	6367	ipsec with (ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L273	4519	ipsec near5(ssl or tls)	US-PGPUB;	OR	OFF	2016/12/06

			USPAT			18:36
L274	6882	709/236.ccls. or 709/245.ccls.	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L275	7044	ipsec same (ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L276	6367	ipsec with(ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L277	6367	ipsec with (ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L278	4519	ipsec near5(ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L279	16	"7882538"	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L280	11	L230 or L231	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L281	10	L232 and (secure adj connection).clm.	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L282	9	L232 and (secure adj connection with address).clm.	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L283	3	L232 and (secure adj connection with intermediate with address).clm.	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L284	2	"20010047487"	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L285	27	L121 and secure near10 key near10 exchang\$3	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L286	3	"US 20060173968"	US-PGPUB; USPAT; USOCR; DERWENT	OR	OFF	2016/12/06 18:36
L287	19	ipsec same tunnel\$3 same IKE same (gateway or proxy or intermediate) and cookie	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L288	24	ike with responder with cookie	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L289	2	"20010047487"	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L290	27	L134 and secure near10 key near10 exchang\$3	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L291	3	"US 20060173968"	US-PGPUB; USPAT; USOCR; DERWENT	OR	OFF	2016/12/06 18:36
L292	19	ipsec same tunnel\$3 same IKE same (gateway or proxy or intermediate) and cookie	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L293	24	ike with responder with cookie	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L294	2	"20010047487"	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L295	27	L147 and secure near10 key near10 exchang\$3	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L296	3	"US 20060173968"	US-PGPUB; USPAT; USOCR; DERWENT	OR	OFF	2016/12/06 18:36
L297	19	ipsec same tunnel\$3 same IKE same (gateway or proxy or	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36

		intermediate) and cookie				
L298	24	ike with responder with cookie	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L299	2	"20010047487"	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L300	27	L160 and secure near10 key near10 exchang\$3	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L301	3	"US 20060173968"	US-PGPUB; USPAT; USOCR; DERWENT	OR	OFF	2016/12/06 18:36
L302	19	ipsec same tunnel\$3 same IKE same (gateway or proxy or intermediate) and cookie	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L303	24	ike with responder with cookie	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L304	23	"6744741"	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L305	42	"7055027"	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L306	2	"20010047487"	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L307	27	L176 and secure near10 key near10 exchang\$3	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L308	3	"US 20060173968"	US-PGPUB; USPAT; USOCR; DERWENT	OR	OFF	2016/12/06 18:36
L309	19	ipsec same tunnel\$3 same IKE same (gateway or proxy or intermediate) and cookie	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L310	24	ike with responder with cookie	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L311	2	"20010047487"	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L312	27	L189 and secure near10 key near10 exchang\$3	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L313	3	"US 20060173968"	US-PGPUB; USPAT; USOCR; DERWENT	OR	OFF	2016/12/06 18:36
L314	19	ipsec same tunnel\$3 same IKE same (gateway or proxy or intermediate) and cookie	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L315	24	ike with responder with cookie	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L316	2	"20010047487"	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L317	27	L202 and secure near10 key near10 exchang\$3	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L318	3	"US 20060173968"	US-PGPUB; USPAT; USOCR; DERWENT	OR	OFF	2016/12/06 18:36
L319	19	ipsec same tunnel\$3 same IKE same (gateway or proxy or intermediate) and cookie	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L320	24	ike with responder with cookie	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36

L321	2	"20010047487"	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L322	27	L215 and secure near10 key near10 exchang\$3	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L323	3	"US 20060173968"	US-PGPUB; USPAT; USOCR; DERWENT	OR	OFF	2016/12/06 18:36
L324	19	ipsec same tunnel\$3 same IKE same (gateway or proxy or intermediate) and cookie	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L325	24	ike with responder with cookie	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L326	23	"6744741"	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L327	42	"7055027"	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L328	11	((SAMI) near2 (VAARALA)).INV.	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L329	11	((ANTTI) near2 (NUOPPONEN)).INV.	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L330	271	ipsec same tunnel\$3 same IKE same (gateway or proxy or intermediate)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L331	271	ipsec same tunnel\$3 same IKE same (gateway or proxy or intermediate)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L332	271	ipsec same tunnel\$3 same IKE same (gateway or proxy or intermediate)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L333	271	ipsec same tunnel\$3 same IKE same (gateway or proxy or intermediate)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L334	271	ipsec same tunnel\$3 same IKE same (gateway or proxy or intermediate)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L335	271	ipsec same tunnel\$3 same IKE same (gateway or proxy or intermediate)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L336	271	ipsec same tunnel\$3 same IKE same (gateway or proxy or intermediate)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L337	271	ipsec same tunnel\$3 same IKE same (gateway or proxy or intermediate)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L338	862	ipsec same tunnel\$3 same IKE	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L339	862	ipsec same tunnel\$3 same IKE	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L340	862	ipsec same tunnel\$3 same IKE	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L341	862	ipsec same tunnel\$3 same IKE	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L342	862	ipsec same tunnel\$3 same IKE	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L343	862	ipsec same tunnel\$3 same IKE	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36

L344	862	ipsec same tunnel\$3 same IKE	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L345	862	ipsec same tunnel\$3 same IKE	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L346	4519	ipsec near5 (ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L347	4519	ipsec near5 (ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L348	4519	ipsec near5 (ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L349	4519	ipsec near5 (ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L350	4519	ipsec near5 (ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L351	4519	ipsec near5 (ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L352	4519	ipsec near5 (ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L353	4519	ipsec near5 (ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L354	149692	("6732269" "6718388" "6957346" "6795917").pn"	US-PGPUB; USPAT; EPO; JPO	OR	ON	2016/12/06 18:36
L355	4	("6732269" "6718388" "6957346" "6795917").pn.	US-PGPUB; USPAT; EPO; JPO	OR	ON	2016/12/06 18:36
L362	2	"20010047487"	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L363	6882	709/236.ccls. or 709/245.ccls.	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L364	27	L363 and secure near10 key near10 exchang\$3	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L365	862	ipsec same tunnel\$3 same IKE	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L366	271	ipsec same tunnel\$3 same IKE same (gateway or proxy or intermediate)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L367	3	"US 20060173968"	US-PGPUB; USPAT; USOCR; DERWENT	OR	OFF	2016/12/06 18:36
L368	19	ipsec same tunnel\$3 same IKE same (gateway or proxy or intermediate) and cookie	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L369	24	ike with responder with cookie	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L370	7044	ipsec same (ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L371	6367	ipsec with(ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L372	6367	ipsec with (ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L373	4519	ipsec near5(ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L374	4519	ipsec near5 (ssl or tls)	US-PGPUB;	OR	OFF	2016/12/06

			USPAT			18:36
L375	2	"20010047487"	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L376	6882	709/236.ccls. or 709/245.ccls.	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L377	27	L376 and secure near10 key near10 exchang\$3	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L378	862	ipsec same tunnel\$3 same IKE	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L379	271	ipsec same tunnel\$3 same IKE same (gateway or proxy or intermediate)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L380	3	"US 20060173968"	US-PGPUB; USPAT; USOCR; DERWENT	OR	OFF	2016/12/06 18:36
L381	19	ipsec same tunnel\$3 same IKE same (gateway or proxy or intermediate) and cookie	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L382	24	ike with responder with cookie	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L383	7044	ipsec same (ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L384	6367	ipsec with(ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L385	6367	ipsec with (ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L386	4519	ipsec near5(ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L387	4519	ipsec near5 (ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L388	2	"20010047487"	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L389	6882	709/236.ccls. or 709/245.ccls.	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L390	27	L389 and secure near10 key near10 exchang\$3	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L391	862	ipsec same tunnel\$3 same IKE	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L392	271	ipsec same tunnel\$3 same IKE same (gateway or proxy or intermediate)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L393	3	"US 20060173968"	US-PGPUB; USPAT; USOCR; DERWENT	OR	OFF	2016/12/06 18:36
L394	19	ipsec same tunnel\$3 same IKE same (gateway or proxy or intermediate) and cookie	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L395	24	ike with responder with cookie	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L396	7044	ipsec same (ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L397	6367	ipsec with(ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L398	6367	ipsec with (ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36

L399	4519	ipsec near5(ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L400	4519	ipsec near5 (ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L401	2	"20010047487"	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L402	6882	709/236.ccls. or 709/245.ccls.	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L403	27	L402 and secure near10 key near10 exchang\$3	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L404	862	ipsec same tunnel\$3 same IKE	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L405	271	ipsec same tunnel\$3 same IKE same (gateway or proxy or intermediate)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L406	3	"US 20060173968"	US-PGPUB; USPAT; USOCR; DERWENT	OR	OFF	2016/12/06 18:36
L407	19	ipsec same tunnel\$3 same IKE same (gateway or proxy or intermediate) and cookie	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L408	24	ike with responder with cookie	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L409	7044	ipsec same (ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L410	6367	ipsec with(ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L411	6367	ipsec with (ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L412	4519	ipsec near5(ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L413	4519	ipsec near5 (ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L414	16	"7882538"	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L415	23	"6744741"	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L416	42	"7055027"	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L417	2	"20010047487"	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L418	6882	709/236.ccls. or 709/245.ccls.	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L419	27	L418 and secure near10 key near10 exchang\$3	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L420	862	ipsec same tunnel\$3 same IKE	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L421	271	ipsec same tunnel\$3 same IKE same (gateway or proxy or intermediate)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L422	3	"US 20060173968"	US-PGPUB; USPAT; USOCR; DERWENT	OR	OFF	2016/12/06 18:36
L423	19	ipsec same tunnel\$3 same IKE same (gateway or proxy or	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36

		intermediate) and cookie				
L424	24	ike with responder with cookie	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L425	7044	ipsec same (ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L426	6367	ipsec with(ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L427	6367	ipsec with (ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L428	4519	ipsec near5(ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L429	4519	ipsec near5 (ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L430	2	"20010047487"	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L431	6882	709/236.ccls. or 709/245.ccls.	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L432	27	L431 and secure near10 key near10 exchang\$3	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L433	862	ipsec same tunnel\$3 same IKE	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L434	271	ipsec same tunnel\$3 same IKE same (gateway or proxy or intermediate)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L435	3	"US 20060173968"	US-PGPUB; USPAT; USOCR; DERWENT	OR	OFF	2016/12/06 18:36
L436	19	ipsec same tunnel\$3 same IKE same (gateway or proxy or intermediate) and cookie	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L437	24	ike with responder with cookie	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L438	7044	ipsec same (ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L439	6367	ipsec with(ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L440	6367	ipsec with (ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L441	4519	ipsec near5(ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L442	4519	ipsec near5 (ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L443	2	"20010047487"	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L444	6882	709/236.ccls. or 709/245.ccls.	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L445	27	L444 and secure near10 key near10 exchang\$3	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L446	862	ipsec same tunnel\$3 same IKE	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L447	271	ipsec same tunnel\$3 same IKE same (gateway or proxy or intermediate)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L448	3	"US 20060173968"	US-PGPUB;	OR	OFF	2016/12/06

			USPAT; USOCR; DERWENT			18:36
L449	19	ipsec same tunnel\$3 same IKE same (gateway or proxy or intermediate) and cookie	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L450	24	ike with responder with cookie	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L451	7044	ipsec same (ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L452	6367	ipsec with(ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L453	6367	ipsec with (ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L454	4519	ipsec near5(ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L455	4519	ipsec near5 (ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L456	2	"20010047487"	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L457	6882	709/236.ccls. or 709/245.ccls.	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L458	27	L457 and secure near10 key near10 exchang\$3	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L459	862	ipsec same tunnel\$3 same IKE	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L460	271	ipsec same tunnel\$3 same IKE same (gateway or proxy or intermediate)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L461	3	"US 20060173968"	US-PGPUB; USPAT; USOCR; DERWENT	OR	OFF	2016/12/06 18:36
L462	19	ipsec same tunnel\$3 same IKE same (gateway or proxy or intermediate) and cookie	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L463	24	ike with responder with cookie	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L464	7044	ipsec same (ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L465	6367	ipsec with(ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L466	6367	ipsec with (ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L467	4519	ipsec near5(ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L468	4519	ipsec near5 (ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L469	16	"7882538"	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L470	23	"6744741"	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L471	42	"7055027"	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L472	11	((SAMI) near2 (VAARALA)).INV.	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36

L473	11	((ANTTI) near2 (NUOPPONEN)).INV.	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L474	11	L472 or L473	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L475	10	L474 and (secure adj connection).clm.	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L476	9	L474 and (secure adj connection with address).clm.	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L477	3	L474 and (secure adj connection with intermediate with address).clm.	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L478	2	"20010047487"	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L479	6882	709/236.ccls. or 709/245.ccls.	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L480	27	L479 and secure near10 key near10 exchang\$3	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L481	862	ipsec same tunnel\$3 same IKE	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L482	271	ipsec same tunnel\$3 same IKE same (gateway or proxy or intermediate)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L483	3	"US 20060173968"	US-PGPUB; USPAT; USOCR; DERWENT	OR	OFF	2016/12/06 18:36
L484	19	ipsec same tunnel\$3 same IKE same (gateway or proxy or intermediate) and cookie	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L485	24	ike with responder with cookie	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L486	7044	ipsec same (ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L487	6367	ipsec with(ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L488	6367	ipsec with (ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L489	4519	ipsec near5(ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L490	4519	ipsec near5 (ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L491	2	"20010047487"	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L492	6882	709/236.ccls. or 709/245.ccls.	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L493	27	L492 and secure near10 key near10 exchang\$3	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L494	862	ipsec same tunnel\$3 same IKE	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L495	271	ipsec same tunnel\$3 same IKE same (gateway or proxy or intermediate)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L496	3	"US 20060173968"	US-PGPUB; USPAT; USOCR; DERWENT	OR	OFF	2016/12/06 18:36
L497	19	ipsec same tunnel\$3 same IKE	US-PGPUB;	OR	OFF	2016/12/06

		same (gateway or proxy or intermediate) and cookie	USPAT			18:36
L498	24	ike with responder with cookie	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L499	7044	ipsec same (ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L500	6367	ipsec with(ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L501	6367	ipsec with (ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L502	4519	ipsec near5(ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L503	4519	ipsec near5 (ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L504	2	"20010047487"	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L505	6882	709/236.ccls. or 709/245.ccls.	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L506	27	L505 and secure near10 key near10 exchang\$3	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L507	862	ipsec same tunnel\$3 same IKE	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L508	271	ipsec same tunnel\$3 same IKE same (gateway or proxy or intermediate)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L509	3	"US 20060173968"	US-PGPUB; USPAT; USOCR; DERWENT	OR	OFF	2016/12/06 18:36
L510	19	ipsec same tunnel\$3 same IKE same (gateway or proxy or intermediate) and cookie	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L511	24	ike with responder with cookie	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L512	7044	ipsec same (ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L513	6367	ipsec with(ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L514	6367	ipsec with (ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L515	4519	ipsec near5(ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L516	4519	ipsec near5 (ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L517	2	"20010047487"	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L518	6882	709/236.ccls. or 709/245.ccls.	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L519	27	L518 and secure near10 key near10 exchang\$3	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L520	862	ipsec same tunnel\$3 same IKE	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L521	271	ipsec same tunnel\$3 same IKE same (gateway or proxy or intermediate)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36

L522	3	"US 20060173968"	US-PGPUB; USPAT; USOCR; DERWENT	OR	OFF	2016/12/06 18:36
L523	19	ipsec same tunnel\$3 same IKE same (gateway or proxy or intermediate) and cookie	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L524	24	ike with responder with cookie	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L525	7044	ipsec same (ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L526	6367	ipsec with(ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L527	6367	ipsec with (ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L528	4519	ipsec near5(ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L529	4519	ipsec near5 (ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L530	16	"7882538"	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L531	23	"6744741"	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L532	42	"7055027"	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L533	2	"20010047487"	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L534	6882	709/236.ccls. or 709/245.ccls.	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L535	27	L534 and secure near10 key near10 exchang\$3	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L536	862	ipsec same tunnel\$3 same IKE	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L537	271	ipsec same tunnel\$3 same IKE same (gateway or proxy or intermediate)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L538	3	"US 20060173968"	US-PGPUB; USPAT; USOCR; DERWENT	OR	OFF	2016/12/06 18:36
L539	19	ipsec same tunnel\$3 same IKE same (gateway or proxy or intermediate) and cookie	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L540	24	ike with responder with cookie	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L541	7044	ipsec same (ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L542	6367	ipsec with(ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L543	6367	ipsec with (ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L544	4519	ipsec near5(ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L545	4519	ipsec near5 (ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L546	2	"20010047487"	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36

L547	6882	709/236.ccls. or 709/245.ccls.	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L548	27	L547 and secure near10 key near10 exchang\$3	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L549	862	ipsec same tunnel\$3 same IKE	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L550	271	ipsec same tunnel\$3 same IKE same (gateway or proxy or intermediate)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L551	3	"US 20060173968"	US-PGPUB; USPAT; USOCR; DERWENT	OR	OFF	2016/12/06 18:36
L552	19	ipsec same tunnel\$3 same IKE same (gateway or proxy or intermediate) and cookie	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L553	24	ike with responder with cookie	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L554	7044	ipsec same (ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L555	6367	ipsec with(ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L556	6367	ipsec with (ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L557	4519	ipsec near5(ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L558	4519	ipsec near5 (ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L559	2	"20010047487"	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L560	6882	709/236.ccls. or 709/245.ccls.	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L561	27	L560 and secure near10 key near10 exchang\$3	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L562	862	ipsec same tunnel\$3 same IKE	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L563	271	ipsec same tunnel\$3 same IKE same (gateway or proxy or intermediate)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L564	3	"US 20060173968"	US-PGPUB; USPAT; USOCR; DERWENT	OR	OFF	2016/12/06 18:36
L565	19	ipsec same tunnel\$3 same IKE same (gateway or proxy or intermediate) and cookie	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L566	24	ike with responder with cookie	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L567	7044	ipsec same (ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L568	6367	ipsec with(ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L569	6367	ipsec with (ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L570	4519	ipsec near5(ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L571	4519	ipsec near5 (ssl or tls)	US-PGPUB;	OR	OFF	2016/12/06

			USPAT			18:36
L572	2	"20010047487"	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L573	6882	709/236.ccls. or 709/245.ccls.	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L574	27	L573 and secure near10 key near10 exchang\$3	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L575	862	ipsec same tunnel\$3 same IKE	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L576	271	ipsec same tunnel\$3 same IKE same (gateway or proxy or intermediate)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L577	3	"US 20060173968"	US-PGPUB; USPAT; USOCR; DERWENT	OR	OFF	2016/12/06 18:36
L578	19	ipsec same tunnel\$3 same IKE same (gateway or proxy or intermediate) and cookie	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L579	24	ike with responder with cookie	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L580	7044	ipsec same (ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L581	6367	ipsec with(ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L582	6367	ipsec with (ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L583	4519	ipsec near5(ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L584	4519	ipsec near5 (ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L585	16	"7882538"	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L586	23	"6744741"	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L587	42	"7055027"	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L588	11	((SAMI) near2 (VAARALA)).INV.	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L589	11	((ANTTI) near2 (NUOPPONEN)).INV.	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L590	11	L588 or L589	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L591	10	L590 and (secure adj connection).clm.	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L592	9	L590 and (secure adj connection with address).clm.	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L593	3	L590 and (secure adj connection with intermediate with address).clm.	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L594	149692	("6732269" "6718388" "6957346" "6795917").pn	US-PGPUB; USPAT; EPO; JPO	OR	ON	2016/12/06 18:36
L595	4	("6732269" "6718388" "6957346" "6795917").pn.	US-PGPUB; USPAT; EPO; JPO	OR	ON	2016/12/06 18:36

L596	6882	709/236.ccls. or 709/245.ccls.	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L597	7044	ipsec same (ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L598	6367	ipsec with(ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L599	6367	ipsec with (ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L600	4519	ipsec near5(ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L601	6882	709/236.ccls. or 709/245.ccls.	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L602	7044	ipsec same (ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L603	6367	ipsec with(ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L604	6367	ipsec with (ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L605	4519	ipsec near5(ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L606	6882	709/236.ccls. or 709/245.ccls.	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L607	7044	ipsec same (ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L608	6367	ipsec with(ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L609	6367	ipsec with (ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L610	4519	ipsec near5(ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L611	6882	709/236.ccls. or 709/245.ccls.	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L612	7044	ipsec same (ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L613	6367	ipsec with(ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L614	6367	ipsec with (ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L615	4519	ipsec near5(ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L616	16	"7882538"	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L617	6882	709/236.ccls. or 709/245.ccls.	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L618	7044	ipsec same (ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L619	6367	ipsec with(ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L620	6367	ipsec with (ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L621	4519	ipsec near5(ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L622	6882	709/236.ccls. or 709/245.ccls.	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36

L623	7044	ipsec same (ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L624	6367	ipsec with(ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L625	6367	ipsec with (ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L626	4519	ipsec near5(ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L627	6882	709/236.ccls. or 709/245.ccls.	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L628	7044	ipsec same (ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L629	6367	ipsec with(ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L630	6367	ipsec with (ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L631	4519	ipsec near5(ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L632	6882	709/236.ccls. or 709/245.ccls.	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L633	7044	ipsec same (ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L634	6367	ipsec with(ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L635	6367	ipsec with (ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L636	4519	ipsec near5(ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L637	16	"7882538"	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L638	11	L588 or L589	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L639	10	L590 and (secure adj connection).clm.	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L640	9	L590 and (secure adj connection with address).clm.	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L641	3	L590 and (secure adj connection with intermediate with address).clm.	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L642	2	"20010047487"	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L643	27	L479 and secure near10 key near10 exchang\$3	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L644	3	"US 20060173968"	US-PGPUB; USPAT; USOCR; DERWENT	OR	OFF	2016/12/06 18:36
L645	19	ipsec same tunnel\$3 same IKE same (gateway or proxy or intermediate) and cookie	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L646	24	ike with responder with cookie	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L647	2	"20010047487"	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L648	27	L492 and secure near10 key	US-PGPUB;	OR	OFF	2016/12/06

		near10 exchang\$3	USPAT			18:36
L649	3	"US 20060173968"	US-PGPUB; USPAT; USOCR; DERWENT	OR	OFF	2016/12/06 18:36
L650	19	ipsec same tunnel\$3 same IKE same (gateway or proxy or intermediate) and cookie	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L651	24	ike with responder with cookie	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L652	2	"20010047487"	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L653	27	L505 and secure near10 key near10 exchang\$3	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L654	3	"US 20060173968"	US-PGPUB; USPAT; USOCR; DERWENT	OR	OFF	2016/12/06 18:36
L655	19	ipsec same tunnel\$3 same IKE same (gateway or proxy or intermediate) and cookie	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L656	24	ike with responder with cookie	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L657	2	"20010047487"	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L658	27	L518 and secure near10 key near10 exchang\$3	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L659	3	"US 20060173968"	US-PGPUB; USPAT; USOCR; DERWENT	OR	OFF	2016/12/06 18:36
L660	19	ipsec same tunnel\$3 same IKE same (gateway or proxy or intermediate) and cookie	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L661	24	ike with responder with cookie	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L662	23	"6744741"	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L663	42	"7055027"	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L664	2	"20010047487"	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L665	27	L534 and secure near10 key near10 exchang\$3	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L666	3	"US 20060173968"	US-PGPUB; USPAT; USOCR; DERWENT	OR	OFF	2016/12/06 18:36
L667	19	ipsec same tunnel\$3 same IKE same (gateway or proxy or intermediate) and cookie	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L668	24	ike with responder with cookie	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L669	2	"20010047487"	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L670	27	L547 and secure near10 key near10 exchang\$3	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L671	3	"US 20060173968"	US-PGPUB; USPAT; USOCR;	OR	OFF	2016/12/06 18:36

			DERWENT			
L672	19	ipsec same tunnel\$3 same IKE same (gateway or proxy or intermediate) and cookie	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L673	24	ike with responder with cookie	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L674	2	"20010047487"	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L675	27	L560 and secure near10 key near10 exchang\$3	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L676	3	"US 20060173968"	US-PGPUB; USPAT; USOCR; DERWENT	OR	OFF	2016/12/06 18:36
L677	19	ipsec same tunnel\$3 same IKE same (gateway or proxy or intermediate) and cookie	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L678	24	ike with responder with cookie	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L679	2	"20010047487"	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L680	27	L573 and secure near10 key near10 exchang\$3	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L681	3	"US 20060173968"	US-PGPUB; USPAT; USOCR; DERWENT	OR	OFF	2016/12/06 18:36
L682	19	ipsec same tunnel\$3 same IKE same (gateway or proxy or intermediate) and cookie	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L683	24	ike with responder with cookie	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L684	23	"6744741"	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L685	42	"7055027"	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L686	11	((SAMI) near2 (VAARALA)).INV.	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L687	11	((ANTTI) near2 (NUOPPONEN)).INV.	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L688	271	ipsec same tunnel\$3 same IKE same (gateway or proxy or intermediate)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L689	271	ipsec same tunnel\$3 same IKE same (gateway or proxy or intermediate)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L690	271	ipsec same tunnel\$3 same IKE same (gateway or proxy or intermediate)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L691	271	ipsec same tunnel\$3 same IKE same (gateway or proxy or intermediate)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L692	271	ipsec same tunnel\$3 same IKE same (gateway or proxy or intermediate)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L693	271	ipsec same tunnel\$3 same IKE same (gateway or proxy or intermediate)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36

L694	271	ipsec same tunnel\$3 same IKE same (gateway or proxy or intermediate)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L695	271	ipsec same tunnel\$3 same IKE same (gateway or proxy or intermediate)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L696	862	ipsec same tunnel\$3 same IKE	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L697	862	ipsec same tunnel\$3 same IKE	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L698	862	ipsec same tunnel\$3 same IKE	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L699	862	ipsec same tunnel\$3 same IKE	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L700	862	ipsec same tunnel\$3 same IKE	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L701	862	ipsec same tunnel\$3 same IKE	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L702	862	ipsec same tunnel\$3 same IKE	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L703	862	ipsec same tunnel\$3 same IKE	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L704	4519	ipsec near5 (ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L705	4519	ipsec near5 (ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L706	4519	ipsec near5 (ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L707	4519	ipsec near5 (ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L708	4519	ipsec near5 (ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L709	4519	ipsec near5 (ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L710	4519	ipsec near5 (ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L711	4519	ipsec near5 (ssl or tls)	US-PGPUB; USPAT	OR	OFF	2016/12/06 18:36
L712	149692	("6732269" "6718388" "6957346" "6795917").pn	US-PGPUB; USPAT; EPO; JPO	OR	ON	2016/12/06 18:36
L713	4	("6732269" "6718388" "6957346" "6795917").pn.	US-PGPUB; USPAT; EPO; JPO	OR	ON	2016/12/06 18:36
L723	15	advanced with dns with lookup	US-PGPUB; USPAT; EPO; JPO	OR	ON	2016/12/06 18:36
L724	5	pre?fetch with dns with lookup	US-PGPUB; USPAT; EPO; JPO	OR	ON	2016/12/06 18:36
L725	13	pre?fetch\$3 with dns with lookup	US-PGPUB; USPAT; EPO; JPO	OR	ON	2016/12/06 18:36
L726	326	(webpage or website) with block\$3 with collect\$3	US-PGPUB; USPAT; EPO;	OR	ON	2016/12/06 18:36

EAST Search History (Interference)


Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L117	2	(secure adj connection with intermediate with address).clm.	USPAT; * No UPAD	OR	OFF	2016/12/06 18:36
L118	21	(secure adj connection with (intermediate or gateway or proxy) with address).clm.	USPAT; * No UPAD	OR	OFF	2016/12/06 18:36
L119	3	(secure adj connection with (intermediate or gateway or proxy) with (key or token) with address).clm.	USPAT; * No UPAD	OR	OFF	2016/12/06 18:36
L356	2	(secure adj connection with intermediate with address).clm.	USPAT; * No UPAD	OR	OFF	2016/12/06 18:36
L357	21	(secure adj connection with (intermediate or gateway or proxy) with address).clm.	USPAT; * No UPAD	OR	OFF	2016/12/06 18:36
L358	3	(secure adj connection with (intermediate or gateway or proxy) with (key or token) with address).clm.	USPAT; * No UPAD	OR	OFF	2016/12/06 18:36
L359	2	(secure adj connection with intermediate with address).clm.	USPAT; * No UPAD	OR	OFF	2016/12/06 18:36
L360	21	(secure adj connection with (intermediate or gateway or proxy) with address).clm.	USPAT; * No UPAD	OR	OFF	2016/12/06 18:36
L361	3	(secure adj connection with (intermediate or gateway or proxy) with (key or token) with address).clm.	USPAT; * No UPAD	OR	OFF	2016/12/06 18:36
L714	2	(secure adj connection with intermediate with address).clm.	USPAT; * No UPAD	OR	OFF	2016/12/06 18:36
L715	21	(secure adj connection with (intermediate or gateway or proxy) with address).clm.	USPAT; * No UPAD	OR	OFF	2016/12/06 18:36
L716	3	(secure adj connection with (intermediate or gateway or proxy) with (key or token) with address).clm.	USPAT; * No UPAD	OR	OFF	2016/12/06 18:36
L717	2	(secure adj connection with intermediate with address).clm.	USPAT; * No UPAD	OR	OFF	2016/12/06 18:36
L718	21	(secure adj connection with (intermediate or gateway or proxy) with address).clm.	USPAT; * No UPAD	OR	OFF	2016/12/06 18:36
L719	3	(secure adj connection with (intermediate or gateway or proxy) with (key or token) with address).clm.	USPAT; * No UPAD	OR	OFF	2016/12/06 18:36
L720	2	(secure adj connection with intermediate with address).clm.	USPAT; * No UPAD	OR	OFF	2016/12/06 18:36
L721	21	(secure adj connection with (intermediate or gateway or proxy) with address).clm.	USPAT; * No UPAD	OR	OFF	2016/12/06 18:36

EAST Search History

L722	3	(secure adj connection with (intermediate or gateway or proxy) with (key or token) with address).clm.	USPAT; * No UPAD	OR	OFF	2016/12/06 18:36
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12/ 6/ 2016 6:59:46 PM

C:\ Users\ atowfighi\ Documents\ EAST\ Workspaces\ jeff930.wsp

<i>Index of Claims</i> 	Application/Control No. 13685544	Applicant(s)/Patent Under Reexamination VAARALA ET AL.
	Examiner AFSHAWN TOWFIGHI	Art Unit 2469

✓	Rejected	-	Cancelled	N	Non-Elected	A	Appeal
=	Allowed	÷	Restricted	I	Interference	O	Objected

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

CLAIM		DATE							
Final	Original	10/08/2013	12/06/2016						
	1	-	-						
	2	-	-						
	3	-	-						
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	23	-	-						
	24	-	-						
	25	-	-						
	26	-	-						
	27	-	-						
	28	-	-						
	29	-	-						
1	30	=	=						
2	31	=	=						
3	32	=	=						
4	33	=	=						

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of

Art Unit 2469

5 Sami Vaarala and Antti Nuopponen

Serial No. 13/685,544

10 Filed: 26 November 2012

For: METHOD AND SYSTEM FOR SENDING A MESSAGE THROUGH A SECURE
CONNECTION

15 Examiner: Afshawn M. Towfighi

Date: 9 December 2016

Attorney Docket No. 290.1078CON

20

AMENDMENT AFTER FINAL (37 CFR 1.312)

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

Please amend the above-identified patent application
as follows:

In the claims:

5 Please amend the claims as follows:
1-29. (Canceled)

~~30.~~ 1. (Currently amended) ~~1.~~ A method for secure forwarding
of a message in a secure connection via an ~~immediate~~
10 intermediate computer, comprising:
the secure connection extending between a first source address
and a destination address via an intermediate computer,
the intermediate computer receiving a secure message having
the first source address sent to an address of the
15 intermediate computer,
the intermediate computer reading an unique identity from the
secure message,
the intermediate computer finding the destination address of
the secure message by using the unique identity, and
20 the intermediate computer sending the secure message in the
secure connection to the destination address by using the
address of the intermediate computer as a second source
address.

25 ~~31.~~ 2. (Currently amended) The method of claim ~~30~~ 1 wherein
the method further comprises the step of establishing the
secure connection via the intermediate computer.

~~32.~~ 3. (Currently amended) The method of claim ~~31~~ 2 wherein the method further comprises the step of establishing the secure connection with a key exchange protocol.

5 ~~33.~~ 4. (Currently amended) The method of claim ~~30~~ 1 wherein the method further comprises the step providing the secure message as an UDP message.

REMARKS

5 Reconsideration of the application is respectfully
requested. After a conversation with the Examiner today, it
was recommended that this amendment after final should be
submitted to correct the typographical error in claim 1. The
claims have also been renumbered so that the first claim is
claim 1 and not claim 30 etc. No new matter has been added.
10 The Examiner is respectfully requested to enter the
amendments.

The application is submitted to be in condition for
allowance, and such action is respectfully requested.

15 Respectfully submitted,
FASTH LAW OFFICES
/rfasth/
20 _____
Rolf Fasth
Registration No. 36,999

25 **ATTORNEY REFERENCE NO. 290.1078CON**

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35

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of

Sami Vaarala, Antti Nuopponen

Art Unit 2469
Confirmation No. 4882

Serial No. 13/685,544

CERTIFICATE OF MAILING

Filed: 26 November 2012

I HEREBY CERTIFY THAT THIS PAPER AND THE DOCUMENTS
REFERRED TO AS BEING ATTACHED OR ENCLOSED HERewith
ARE BEING SUBMITTED ELECTRONICALLY TO THE UNITED
STATES PATENT AND TRADEMARK OFFICE ON **9 December**
2016.For: METHOD AND SYSTEM FOR
SENDING A MESSAGE
THROUGH A SECURE
CONNECTION

/rfasth/

Examiner: Afshawn M. Towfighi

Rolf Fasth
Attorney for Applicant

Date: 9 December 2016

TRANSMITTAL LETTERELECTRONIC SUBMISSIONCOMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, VA 22313-1450In connection with the issuance of a patent, enclosed for
filing is the above-referenced application are the following:(X) AMENDMENT AFTER FINAL (37 CFR 1.312)
(X) The Commissioner is hereby authorized to charge any
additional fees which may be required in connection with
the issuance of a patent or credit over-payment to Account
No. 06-0243.

Respectfully submitted,

FASTH LAW OFFICES

/rfasth/

Rolf Fasth
Registration No. 36,999FASTH LAW OFFICES
1206 Stanridge Drive
Raleigh, NC 27613-7063Telephone: (910) 687-0001
Facsimile: (919) 882-1265
Email: rolf.fasth@fasthlaw.comAttorney Ref. No. 290.1078CON

Electronic Acknowledgement Receipt

EFS ID:	27748098
Application Number:	13685544
International Application Number:	
Confirmation Number:	4882
Title of Invention:	METHOD AND SYSTEM FOR SENDING A MESSAGE THROUGH A SECURE CONNECTION
First Named Inventor/Applicant Name:	Sami Vaarala
Correspondence Address:	ROLF FASTH FASTH LAW OFFICES 26 PINECREST PLAZA, SUITE 2 - SOUTHERN PINES NC 28387-4301 US - -
Filer:	Rolf Fasth/Sloan Smith
Filer Authorized By:	Rolf Fasth
Attorney Docket Number:	290.1078CON
Receipt Date:	09-DEC-2016
Filing Date:	26-NOV-2012
Time Stamp:	14:33:21
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no
File Listing:	

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Amendment after Notice of Allowance (Rule 312)	AMD.pdf	463072	no	4
			943e9977cad1735eab49c5d8e058d48ed2fb9864		
Warnings:					
Information:					
2	Transmittal Letter	TRX.pdf	218895	no	1
			3d1be3536e891536ea78b385ccd5f1dd4bb4e99e		
Warnings:					
Information:					
Total Files Size (in bytes):			681967		
<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>					

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of

Art Unit 2469

5 Sami Vaarala and Antti Nuopponen

Serial No. 13/685,544

10 Filed: 26 November 2012

For: METHOD AND SYSTEM FOR SENDING A MESSAGE THROUGH A SECURE
CONNECTION

15 Examiner: Afshawn M. Towfighi

Date: 9 December 2016

Attorney Docket No. 290.1078CON

20

AMENDMENT

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

Please amend the above-identified patent application
as follows:

In the claims:

5 Please amend the claims as follows:

1-29. (Canceled)

30. (Currently amended) ~~1.~~ A method for secure forwarding of a
message in a secure connection via an ~~immediate~~ intermediate
10 computer, comprising:

the secure connection extending between a first source address
and a destination address via an intermediate computer,

the intermediate computer receiving a secure message having
the first source address sent to an address of the

15 intermediate computer,

the intermediate computer reading an unique identity from the
secure message,

the intermediate computer finding the destination address of
the secure message by using the unique identity, and

20 the intermediate computer sending the secure message in the
secure connection to the destination address by using the
address of the intermediate computer as a second source
address.

25 31. (Original) The method of claim 30 wherein the method
further comprises the step of establishing the secure
connection via the intermediate computer.

32. (Original) The method of claim 31 wherein the method further comprises the step of establishing the secure connection with a key exchange protocol.

5 33. (Original) The method of claim 30 wherein the method further comprises the step providing the secure message as an UDP message.

REMARKS

5 Reconsideration of the application is respectfully
requested. After a conversation with the Examiner today, it
was recommended that this amendment after final should be
submitted to correct the typographical error in claim 1. No
new matter has been added. The Examiner is respectfully
requested to enter the amendment.

10 The application is submitted to be in condition for
allowance, and such action is respectfully requested.

Respectfully submitted,

15

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/rfasth/

20

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Registration No. 36,999

ATTORNEY REFERENCE NO. 290.1078CON

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of

Sami Vaarala, Antti Nuopponen

Art Unit 2469
Confirmation No. 4882

Serial No. 13/685,544

CERTIFICATE OF MAILING

Filed: 26 November 2012

I HEREBY CERTIFY THAT THIS PAPER AND THE DOCUMENTS REFERRED TO AS BEING ATTACHED OR ENCLOSED HERewith ARE BEING SUBMITTED ELECTRONICALLY TO THE UNITED STATES PATENT AND TRADEMARK OFFICE ON **9 December 2016**.

For: METHOD AND SYSTEM FOR
SENDING A MESSAGE
THROUGH A SECURE
CONNECTION

/rfasth/

Examiner: Afshawn M. Towfighi

Rolf Fasth
Attorney for Applicant

Date: 9 December 2016

TRANSMITTAL LETTER

ELECTRONIC SUBMISSION

COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, VA 22313-1450

In connection with the issuance of a patent, enclosed for filing is the above-referenced application are the following:

- (X) AMENDMENT (37 CFR 1.312)
- (X) The Commissioner is hereby authorized to charge any additional fees which may be required in connection with the issuance of a patent or credit over-payment to Account No. 06-0243.

Respectfully submitted,

FASTH LAW OFFICES

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Attorney Ref. No. 290.1078CON

Electronic Acknowledgement Receipt

EFS ID:	27749811
Application Number:	13685544
International Application Number:	
Confirmation Number:	4882
Title of Invention:	METHOD AND SYSTEM FOR SENDING A MESSAGE THROUGH A SECURE CONNECTION
First Named Inventor/Applicant Name:	Sami Vaarala
Correspondence Address:	ROLF FASTH FASTH LAW OFFICES 26 PINECREST PLAZA, SUITE 2 - SOUTHERN PINES NC 28387-4301 US - -
Filer:	Rolf Fasth/Sloan Smith
Filer Authorized By:	Rolf Fasth
Attorney Docket Number:	290.1078CON
Receipt Date:	09-DEC-2016
Filing Date:	26-NOV-2012
Time Stamp:	15:29:04
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	Amendment after Notice of Allowance (Rule 312)	AMD.pdf	386620	no	4
			2837d66167cbe6251f5fabaabd15e1d7ff704fce		
Warnings:					
Information:					
2	Transmittal Letter	TRX.pdf	217853	no	1
			df50234c2a1c2022134b1470b47e86e3129c8a11		
Warnings:					
Information:					
Total Files Size (in bytes):			604473		
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PTO/AIA/122 (08-12)

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CHANGE OF CORRESPONDENCE ADDRESS <i>Application</i> Address to: Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450	Application Number	13685544
	Filing Date	9 December 2016
	First Named Inventor	Sami Vaarala, Antti Nuopponen
	Art Unit	2469
	Examiner Name	Towfighi, Afshawn M
	Attorney Docket Number	290.1078CON

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I am the:

Applicant

Attorney or agent of record. Registration Number 36999

Registered practitioner named in the application transmittal papers who acts in a representative capacity under 37 CFR 1.34. See 37 CFR 1.33(a)(1). Registration Number _____

Signature */rfasth/*

Typed or Printed Name **Rolf Fasth**

Date **9 December 2016** Telephone **(910)687-0001**

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

*Total of 1 forms are submitted.

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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.

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/rfasth/

Signature

9 December 2016

Date

Rolf Fasth

Typed or printed name

910-687-0001

Telephone number

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for USSN 13/685,544 (1 page)

This collection of information is required by 37 CFR 1.8. 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 1.8 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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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.
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FAX COVER SHEET

TO	Commissioner for Patents
COMPANY	USPTO
FAXNUMBER	15712738300
FROM	SloanSmith
DATE	2016-12-09 16:20:23 GMT
RE	Our ref. 290.1078CON

COVER MESSAGE

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PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875	Application or Docket Number 13/685,544	Filing Date 11/26/2012	<input type="checkbox"/> To be Mailed
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ENTITY: LARGE SMALL MICRO

APPLICATION AS FILED – PART I

FOR	NUMBER FILED	NUMBER EXTRA	RATE (\$)	FEE (\$)
<input type="checkbox"/> BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A	N/A	
<input type="checkbox"/> SEARCH FEE (37 CFR 1.16(k), (j), or (m))	N/A	N/A	N/A	
<input type="checkbox"/> EXAMINATION FEE (37 CFR 1.16(c), (p), or (q))	N/A	N/A	N/A	
TOTAL CLAIMS (37 CFR 1.16(i))	minus 20 =	*	X \$ =	
INDEPENDENT CLAIMS (37 CFR 1.16(h))	minus 3 =	*	X \$ =	
<input type="checkbox"/> 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).			
<input type="checkbox"/> MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))				
* If the difference in column 1 is less than zero, enter "0" in column 2.			TOTAL	

APPLICATION AS AMENDED – PART II

	(Column 1)	(Column 2)	(Column 3)	PRESENT EXTRA	RATE (\$)	ADDITIONAL FEE (\$)
AMENDMENT	12/09/2016	CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR		
	Total (37 CFR 1.16(i))	+ 4	Minus	** 20	= 0	X \$80 = 0
	Independent (37 CFR 1.16(h))	+ 1	Minus	***3	= 0	X \$420 = 0
	<input type="checkbox"/> Application Size Fee (37 CFR 1.16(s))					
<input type="checkbox"/> FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))						
					TOTAL ADD'L FEE	0

	(Column 1)	(Column 2)	(Column 3)	PRESENT EXTRA	RATE (\$)	ADDITIONAL FEE (\$)
AMENDMENT		CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR		
	Total (37 CFR 1.16(i))	+	Minus	**	=	X \$ =
	Independent (37 CFR 1.16(h))	+	Minus	***	=	X \$ =
	<input type="checkbox"/> Application Size Fee (37 CFR 1.16(s))					
<input type="checkbox"/> FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))						
					TOTAL ADD'L FEE	

* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.
 ** 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".

LIE
 BRENDA J. DENNY

The "Highest Number Previously Paid For" (Total or Independent) is the highest number found in the appropriate box in column 1.

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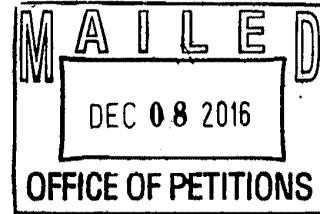
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FASTH LAW OFFICES
26 PINECREST PLAZA, SUITE 2
SOUTHERN PINES NC 28387-4301**



In re Application of :
Sami Vaarala et al :
Application No. 13/685,544 : DECISION ON PETITION
Filed: November 26, 2012 : UNDER 37 CFR 1.313(c)
Attorney Docket No. 290.1078CON :

This is a decision on the petition filed by paper under 37 CFR 1.313(c), filed December 2, 2016, to withdraw the above-identified application from issue.

The petition is **DISMISSED**.

It is noted that in the epetition that was auto-granted on December 2, 2016, the applicant had also submitted a Request for Continued Examination (RCE) for which the required submission was identified as a petition to withdraw from issue from issue which is not acceptable. See 37 CFR 1.114. However, subsequently an Application Data Sheet (ADS) along with a renewed Petition to Accept Unintentionally Delayed Claim Of Priority (37 CFR 1.78(e)) was filed on December 6, 2016, which does meet the submission requirement.

Any questions concerning this matter may be directed to the undersigned at (571) 272-3208.

This matter is being referred to the Office of International Patent Legal Administration to consider the petition under 37 CFR 1.78(e) filed December 6, 2016.

/koc/
Karen Creasy
Paralegal Specialist
Office of Petitions



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Table with 7 columns: APPLICATION NUMBER, FILING or 371(c) DATE, GRP ART UNIT, FIL FEE REC'D, ATTY.DOCKET.NO, TOT CLAIMS, IND CLAIMS. Row 1: 13/685,544, 11/26/2012, 2469, 1710, 290.1078CON, 4, 1

CONFIRMATION NO. 4882

CORRECTED FILING RECEIPT



000000087708908

ROLF FASTH
FASTH LAW OFFICES
26 PINECREST PLAZA, SUITE 2
SOUTHERN PINES, NC 28387-4301

Date Mailed: 12/07/2016

Receipt is acknowledged of this non-provisional 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 APPLICANT, 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 Filing Receipt Correction. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections 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

Inventor(s)

Sami Vaarala, Espoo, FINLAND;
Antti Nuopponen, Espoo, FINLAND;

Applicant(s)

MPH TECHNOLOGIES OY, Espoo, FINLAND;

Assignment For Published Patent Application

MPH TECHNOLOGIES OY, Espoo, FINLAND

Power of Attorney:

Rolf Fasth--36999

Domestic Priority data as claimed by applicant

This application is a CON of 10/500,930 10/19/2005 PAT 8346949
which is a 371 of PCT/FI03/00045 01/21/2003

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.)

FINLAND 20020112 01/22/2002 No Access Code Provided

Permission to Access Application via Priority Document Exchange: No

Permission to Access Search Results: No

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If Required, Foreign Filing License Granted: 12/17/2012

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 13/685,544**

Projected Publication Date: Not Applicable

Non-Publication Request: No

Early Publication Request: No
Title

METHOD AND SYSTEM FOR SENDING A MESSAGE THROUGH A SECURE CONNECTION

Preliminary Class

713

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

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>.

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

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INTERNATIONAL PRIORITY LEGAL ACTION

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SOUTHERN PINES NC 28387-4301

In re Application of	:	
MPH TECHNOLOGIES OY	:	
Application No.: 13/685,544	:	DECISION ON PETITION
Filing Date: November 26, 2012	:	UNDER 37 CFR 1.55(e)
Attorney Docket No.: 290.1078CON	:	
	:	

This is a decision on the petition under 37 CFR 1.55(e), filed December 6, 2016, to accept an unintentionally delayed claim under 35 U.S.C. 119(a) through (d) or (f) and/or 35 U.S.C. 365(a) or (b) for priority to one or more prior foreign applications.

Under 37 CFR 1.55(e), a petition to accept an unintentionally delayed claim under 35 U.S.C. 119(a) through (d) or (f) and/or 35 U.S.C. 365(a) or (b) for the benefit of a prior-filed foreign application must be accompanied by:

- (i) the claim required by 35 U.S.C. 119 and 37 CFR 1.55(e)(1) to the prior-filed application, unless previously submitted;
- (ii) a certified copy of the foreign application, if required by 37 CFR 1.55(f), unless previously submitted or an exception under 37 CFR 1.55(h), (i), or (j) applies;
- (iii) the petition fee set forth in 37 CFR 1.17(m); and
- (iv) a statement that the entire delay between the date the priority claim was due under 37 CFR 1.55(d) and the date the claim was filed was unintentional. The Director may require additional information where there is a question whether the delay was unintentional.

With regard to item (i), the claim for foreign priority has been presented in an application data sheet as required by 37 CFR 1.55(e)(1).

With regard to item (ii), the certified copy requirement has been satisfied.

With regard to item (iii), the petition fee set forth in 37 CFR 1.17(m) has been submitted.

With regard to item (iv), the petition contains a proper statement of unintentional delay.

For the reasons above, the petition under 37 CFR 1.55(e) is **GRANTED**.

Applicant is advised that the inclusion of a prior-filed application on any filing receipt should not be construed as meaning that the present application is necessarily entitled to a right of priority. In order for an application to be entitled to a right of priority, all other requirements under 35 U.S.C. 119 and 37 CFR 1.55 must be met. The examiner will, in due course, determine whether the present application is entitled to the benefit of an earlier filing date.

This matter is being referred to Technology Center Art Unit 2469 for appropriate action, including consideration by the examiner of applicant's entitlement to the benefit of priority under 35 U.S.C. 119 and/or 365 to any prior-filed applications.

/Bryan Lin/
Bryan Lin
PCT Legal Examiner
International Patent Legal Administration
571-272-3303

ATTACHMENT: corrected filing receipt

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of

Art Unit 2469

5 Sami Vaarala and Antti Nuopponen

Serial No. 13/685,544

Filed: 26 November 2012

10

For: METHOD AND SYSTEM FOR SENDING A MESSAGE THROUGH A SECURE
CONNECTION

PCT Legal Examiner: Bryan Lin

15

Date: 6 December 2016

Attorney Docket No. 290.1078CON

20

**Renewal of PETITION TO ACCEPT UNINTENTIONALLY DELAYED CLAIM OF
PRIORITY (37 CFR 1.55(e))**

25

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

30

This is a petition under 37 CFR 1.55(e) to accept an unintentionally delayed claim of priority under 35 USC 119(a) through (d) or (f), 365(a) or (b), or 386(a) or (b). A revised application data sheet (ADS) is being submitted concurrently herewith via EFS Web. The petition fee set forth in 37 CFR 1.17(m) was submitted with the petition under 37 CFR 1.55(e) filed May 27, 2016 to accept an unintentionally delay claim under 35 USC 119. This petition was dismissed on 17 August 2016 because the application had not been revived yet. Petitioner respectfully requests that the petition fee (37 CFR 1.17(m)) already paid be applied to this petition instead. If this is not possible, the Commissioner is hereby authorized to charge any fees which may be required in connection with the filing of this petition and any documents enclosed herewith, or credit over-payment, to Account No. 06-0243.

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The entire delay between the date the priority claim was due under this section and the date the priority claim was filed was unintentional.

Petitioner requests that the delayed claim of priority be accepted and that the additional priority dates be included in the patent application.

5 A PETITION FOR REVIVAL OF AN APPLICATION FOR PATENT ABANDONED UNINTENTIONALLY UNDER 37 CFR 1.137 was granted on 17 November 2016. A copy of this decision is enclosed.

A copy of the priority document (Finnish Application No. 20020112, filed 22 January 2002) has been submitted under PCT application no. PCT/FI03/00045, filed 21 January 2003.
10 The priority application can be viewed under the online publication of WO2003063443.

I certify, in accordance with 37 CFR 1.4(d)(4) that I am an attorney or agent registered to practice before PTO.

15 Respectfully submitted,

FASTH LAW OFFICES

20 /rfasth/

Rolf Fasth
Registration No. 36,999

25

ATTORNEY DOCKET NO. 290.1078CON

FASTH LAW OFFICES
30 26 Pinecrest Plaza, Suite 2
Southern Pines, NC 28387-4301
Telephone: (910) 687-0001
Facsimile: (910) 295-2152

Electronic Acknowledgement Receipt

EFS ID:	27710950
Application Number:	13685544
International Application Number:	
Confirmation Number:	4882
Title of Invention:	METHOD AND SYSTEM FOR SENDING A MESSAGE THROUGH A SECURE CONNECTION
First Named Inventor/Applicant Name:	Sami Vaarala
Correspondence Address:	ROLF FASTH FASTH LAW OFFICES 26 PINECREST PLAZA, SUITE 2 - SOUTHERN PINES NC 28387-4301 US - -
Filer:	Rolf Fasth/Sloan Smith
Filer Authorized By:	Rolf Fasth
Attorney Docket Number:	290.1078CON
Receipt Date:	06-DEC-2016
Filing Date:	26-NOV-2012
Time Stamp:	16:09:28
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no
File Listing:	

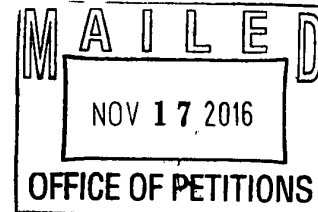
Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Petition for review by the PCT legal office	CORRECTED_ADS.pdf	5589847	no	5
			589e2e840af50eef3dfe6e0768027b5b4cbf8ba0		
Warnings:					
Information:					
2	Petition for review by the PCT legal office	REVIVAL_GRANTED.pdf	114172	no	1
			877b93128ce7ffec63326cc3c2932998ec81121b		
Warnings:					
Information:					
3	Miscellaneous Incoming Letter	TRX.pdf	261205	no	1
			6e8c3d27d2873bd7058843fc5a99e6c252b91701		
Warnings:					
Information:					
4	Petition for review by the PCT legal office	RENEWED_PETITION_DELAYED_PRIORITY_CLAIM.pdf	416739	no	2
			87a43be78098c5a5e6bd736d428888a560ce35e5		
Warnings:					
Information:					
Total Files Size (in bytes):			6381963		
<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>					



UNITED STATES PATENT AND TRADEMARK OFFICE

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

ROLF FASTH
FASTH LAW OFFICES
26 PINECREST PLAZA SUITE 2
SOUTHERN PINES NC 28387-4301



In re Application of :
Vaarala, et al. :
Application No. 13/685,544 : ON PETITION
Filed: November 26, 2012 :
Attorney Docket No. 290.1078CON :

This is a decision on the petition to revive under 37 CFR 1.137(a), filed February 26, 2016.

The petition under 37 CFR 1.137(a) is GRANTED.

The above-identified application became abandoned for failure to file an oath or declaration no later than payment of the issue fee. Applicants paid the issue fee on January 6, 2014 (in response to an October 21, 2013 Notice of Allowance). No oath or declaration having been filed on or before that date, the application became abandoned on January 7, 2014. The Office mailed a Notice of Abandonment on August 7, 2014. Applicants filed a petition to withdraw the holding of abandonment on September 18, 2014. However, the petition was dismissed in a decision mailed on February 16, 2016.

With the instant petition, petitioner has paid the petition fee, made the proper statement of unintentional delay, and filed the required reply in the form of a 37 CFR 1.63 declaration from both of the co-inventors.

The application is being forwarded to the Office of Data Management for processing into a patent.

Telephone inquiries related to this decision should be directed to the undersigned at (571)272-3207.

/Cliff Congo/
Cliff Congo
Attorney Advisor
Office of Petitions

Attorney Ref. 290.1078CON

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE
In re application of Art Unit 2469

Sami Vaarala, Antti Nuopponen

Serial No. 13/685,544

Filed: 26 November 2012

For: METHOD AND SYSTEM FOR
SENDING A MESSAGE
THROUGH A SECURE
CONNECTION

PCT Legal Examiner: Bryan Lin

Date: 6 December 2016

CERTIFICATE OF MAILING

I HEREBY CERTIFY THAT THIS PAPER AND THE DOCUMENTS
REFERRED TO AS BEING ATTACHED OR ENCLOSED HERewith
ARE BEING SUBMITTED ELECTRONICALLY TO THE UNITED
STATES PATENT AND TRADEMARK OFFICE ON **6 December**
2016.

/rfasth/

Rolf Fasth
Attorney for Applicant

TRANSMITTAL LETTER

TO THE COMMISSIONER FOR PATENTS:
MAIL STOP PETITION

This is a Renewal of petition filed previously on 27 May 2016.
Enclosed for filing in the above-referenced application are the
following:

- (X) Renewed PETITION TO ACCEPT UNINTENTIONALLY DELAYED CLAIM
OF PRIORITY (37 CFR 1.55(e))
- (X) Required fee has been paid
- (X) Corrected ADS
- (X) Copy of Decision on Petition to Revive
- (X) The Commissioner is hereby authorized to charge any fees
which may be required in connection with the filing of this
petition and any documents enclosed herewith, or credit
over-payment, to Account No. 06-0243.

Respectfully submitted,
FASTH LAW OFFICES

/rfasth/

Rolf Fasth
Registration No. 36,999

FASTH LAW OFFICES
26 Pinecrest Plaza, Suite 2
Southern Pines, NC 28387-4301
Telephone: 910-687-0001
Facsimile: 910-295-2152

Attorney Ref. 290.1078CON

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	290.1078CON
		Application Number	
Title of Invention	METHOD AND SYSTEM FOR SENDING A MESSAGE THROUGH A SECURE CONNECTION		
<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. 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	
	Sami		Vaarala		
Residence Information (Select One) <input type="radio"/> US Residency <input checked="" type="radio"/> Non US Residency <input type="radio"/> Active US Military Service					
City	Espoo	Country of Residence		FI	
Mailing Address of Inventor:					
Address 1		Saterrinne 8 B 37			
Address 2					
City	FI-02600 Espoo	State/Province			
Postal Code	FI	Country	FI		
Inventor 2					Remove
Legal Name					
Prefix	Given Name	Middle Name	Family Name	Suffix	
	Antti		Nuopponen		
Residence Information (Select One) <input type="radio"/> US Residency <input checked="" type="radio"/> Non US Residency <input type="radio"/> Active US Military Service					
City	Espoo	Country of Residence		FI	
Mailing Address of Inventor:					
Address 1		Kaksoiskiventie 7-9 A1			
Address 2					
City	FI-02760 Espo	State/Province			
Postal Code	FI	Country	FI		
All Inventors Must Be Listed - Additional Inventor Information blocks may be generated within this form by selecting the Add button.					Add

Correspondence Information:

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

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	290.1078CON
		Application Number	
Title of invention	METHOD AND SYSTEM FOR SENDING A MESSAGE THROUGH A SECURE CONNECTION		
Enter either Customer Number or complete the Correspondence Information section below. For further information see 37 CFR 1.33(a).			
<input type="checkbox"/> An Address is being provided for the correspondence information of this application.			
Customer Number	33369		
Email Address	sloan.smith@fastlaw.com	<input type="button" value="Add Email"/>	<input type="button" value="Remove Email"/>

Application Information:

Title of the Invention	METHOD AND SYSTEM FOR SENDING A MESSAGE THROUGH A SECURE CONNECTION		
Attorney Docket Number	290.1078CON	Small Entity Status Claimed	<input type="checkbox"/>
Application Type	Nonprovisional		
Subject Matter	Utility		
Suggested Class (if any)		Sub Class (if any)	
Suggested Technology Center (if any)			
Total Number of Drawing Sheets (if any)	2	Suggested Figure for Publication (if any)	

Publication Information:

<input type="checkbox"/> Request Early Publication (Fee required at time of Request 37 CFR 1.219)
<input type="checkbox"/> 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:	<input checked="" type="radio"/> Customer Number	<input type="radio"/> US Patent Practitioner	<input type="radio"/> Limited Recognition (37 CFR 11.9)
Customer Number	33369		

Domestic Benefit/National Stage Information:

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

Prior Application Status	Pending	<input type="button" value="Remove"/>
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Application Data Sheet 37 CFR 1.76		Attorney Docket Number	290.1078CCN
		Application Number	
Title of invention	METHOD AND SYSTEM FOR SENDING A MESSAGE THROUGH A SECURE CONNECTION		
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)
	Continuation of	10500930	2005-10-19
Prior Application Status	<input type="button" value="Remove"/>		
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)
<u>10500930</u>	<u>a 371 of international</u>	<u>PCT/FI03/00945</u>	<u>2003-01-21</u>
Additional Domestic Benefit/National Stage Data may be generated within this form by selecting the Add button.			

Foreign Priority Information:

This section allows for the applicant to claim benefit of foreign priority and to identify any prior foreign application for which priority is not claimed. 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(a).

<input type="button" value="Remove"/>			
Application Number	Country ¹	Filing Date (YYYY-MM-DD)	Priority Claimed
<u>20020112</u>	<u>EU</u>	<u>2002-01-22</u>	<input checked="" type="radio"/> Yes <input type="radio"/> No
Additional Foreign Priority Data may be generated within this form by selecting the Add button.			

Authorization to Permit Access:

Authorization to Permit Access to the Instant Application by the Participating Offices

If checked, the undersigned hereby grants the USPTO authority to provide the European Patent Office (EPO), the Japan Patent Office (JPO), the Korean Intellectual Property Office (KIPO), the World Intellectual Property Office (WIPO), and any other intellectual property offices in which a foreign application claiming priority to the instant patent application is filed access to the instant patent application. See 37 CFR 1.14(c) and (h). This box should not be checked if the applicant does not wish the EPO, JPO, KIPO, WIPO, or other intellectual property office in which a foreign application claiming priority to the instant patent application is filed to have access to the instant patent application.

In accordance with 37 CFR 1.14(h)(3), access will be provided to a copy of the instant patent application with respect to: 1) the instant patent application-as-filed; 2) any foreign application to which the instant patent application claims priority under 35 U.S.C. 119(a)-(d) if a copy of the foreign application that satisfies the certified copy requirement of 37 CFR 1.55 has been filed in the instant patent application, and 3) any U.S. application-as-filed from which benefit is sought in the instant patent application.

In accordance with 37 CFR 1.14(c), access may be provided to information concerning the date of filing this Authorization

Applicant Information:

Providing assignment information in this section does not substitute for compliance with any requirement of part 3 of Title 37 of CFR to have an assignment recorded by the Office.

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	290.1078CON
		Application Number	
Title of invention	METHOD AND SYSTEM FOR SENDING A MESSAGE THROUGH A SECURE CONNECTION		

Applicant 1

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 1.45 (assignee, person to whom the inventor is obligated to assign, or person who otherwise shows sufficient proprietary interest) together with one or more joint inventors, then the joint inventor or inventors who are also the applicant should be identified in this section.

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

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

Name of the Deceased or Legally Incapacitated Inventor: _____

If the Assignee is an Organization check here.

Prefix	Given Name	Middle Name	Family Name	Suffix

Mailing Address Information:

Address 1			
Address 2			
City		State/Province	
Country		Postal Code	
Phone Number		Fax Number	
Email Address			

Additional Applicant Data may be generated within this form by selecting the Add button.

Signature:

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

Signature		Date (YYYY-MM-DD)	
First Name	Last Name	Registration Number	

Additional Signature may be generated within this form by selecting the Add button.

Signature:

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

Signature	/r/fasth/	Date (YYYY-MM-DD)	2012-11-26
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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	290 1078CON		
		Application Number			
Title of Invention	METHOD AND SYSTEM FOR SENDING A MESSAGE THROUGH A SECURE CONNECTION				
First Name	Rolf	Last Name	Fasih	Registration Number	36999
Additional Signature may be generated within this form by selecting the Add button					

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

**REQUEST FOR CONTINUED EXAMINATION(RCE)TRANSMITTAL
 (Submitted Only via EFS-Web)**

Application Number	13685544	Filing Date	2012-11-26	Docket Number (if applicable)	290.1078CON	Art Unit	2469
First Named Inventor	Sami Vaarala			Examiner Name	Afshawn M. Towfighi		

This is a Request for Continued Examination (RCE) under 37 CFR 1.114 of the above-identified application.
 Request for Continued Examination (RCE) practice under 37 CFR 1.114 does not apply to any utility or plant application filed prior to June 8, 1995, to any international application that does not comply with the requirements of 35 U.S.C. 371, or to any design application. The Instruction Sheet for this form is located at WWW.USPTO.GOV.

SUBMISSION REQUIRED UNDER 37 CFR 1.114

Note: If the RCE is proper, any previously filed unentered amendments and amendments enclosed with the RCE will be entered in the order in which they were filed unless applicant instructs otherwise. If applicant does not wish to have any previously filed unentered amendment(s) entered, applicant must request non-entry of such amendment(s).

Previously submitted. If a final Office action is outstanding, any amendments filed after the final Office action may be considered as a submission even if this box is not checked.

Consider the arguments in the Appeal Brief or Reply Brief previously filed on _____

Other _____

Enclosed

Amendment/Reply

Information Disclosure Statement (IDS)

Affidavit(s)/ Declaration(s)

Other

MISCELLANEOUS

Suspension of action on the above-identified application is requested under 37 CFR 1.103(c) for a period of months _____
 (Period of suspension shall not exceed 3 months; Fee under 37 CFR 1.17(i) required)

Other _____

FEEs

The RCE fee under 37 CFR 1.17(e) is required by 37 CFR 1.114 when the RCE is filed.
 The Director is hereby authorized to charge any underpayment of fees, or credit any overpayments, to Deposit Account No

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT REQUIRED

Patent Practitioner Signature
 Applicant Signature

Doc code: RCEX
Doc description: Request for Continued Examination (RCE)

PTO/SB/30EFS (07-14)
Approved for use through 07/31/2016. OMB 0651-0031
U.S. Patent and Trademark Office, U.S. DEPARTMENT OF COMMERCE

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

Signature of Registered U.S. Patent Practitioner			
Signature	/rfasth/	Date (YYYY-MM-DD)	2016-12-02
Name	Rolf Fasth	Registration Number	36999

This collection of information is required by 37 CFR 1.114. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450.

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

Attorney Docket No. 290.1078CON

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of Art Unit 2469

5 Sami Vaarala and Antti Nuopponen

Serial No. 13/685,544

10 Filed: 26 November 2012

For: METHOD AND SYSTEM FOR SENDING A
MESSAGE THROUGH A SECURE CONNECTION

15 Examiner: Afshawn M. Towfighi

Date: 2 December 2016

**Petition for Withdrawal from Issue After Payment of Issue Fee
under 37 CFR 1.313(c)(2)**

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

25 This is a petition under 37 CFR 1.313(c)(2) to
withdraw from issuance after payment of the Issue Fee. The
Issue Fee was paid on 6 January 2014 in response to a 21
October 2013 Notice of Allowance. A Request for Continued
Examination under 37 CFR 1.114 is being filed concurrently
herewith. The claim of priority of the current application
30 needs to be corrected. A petition under 37 CFR 1.55(e) was
filed on 27 May 2016, to accept an unintentionally delayed
claim under 35 USC 119. This petition was dismissed without
prejudice on 17 August 2016 because the current application
had not yet been revived. The petition to revive the
35 application under 37 CFR 1.137 was granted on 17 November 2016
and received on 28 November 2016. The petition under 37 CFR
1.55(e) to correct the claim of priority is going to be re-
submitted under a separate cover.

I certify, in accordance with 37 CFR 1.4(d)(4) that
I am an attorney or agent registered to practice before PTO.

5

Respectfully submitted,

FASTH LAW OFFICES

10

/rfasth/

Rolf Fasth
Registration No. 36,999

15

ATTORNEY DOCKET NO. 290.1078CON

FASTH LAW OFFICES
1206 Stanridge Drive
Raleigh, North Carolina 27613-7063 USA
Tel: +1-910-687-0001
Fax: +1-919-882-1265

Attorney Ref. 290.1078CON

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE
In re application of Art Unit 2469

Sami Vaarala, Antti Nuopponen

Serial No. 13/685,544

Filed: 26 November 2012

For: METHOD AND SYSTEM FOR
SENDING A MESSAGE
THROUGH A SECURE
CONNECTION

Examiner: Towfighi, Afshawn M

Date: 2 December 2016

CERTIFICATE OF MAILING

I HEREBY CERTIFY THAT THIS PAPER AND THE DOCUMENTS
REFERRED TO AS BEING ATTACHED OR ENCLOSED HERewith
ARE BEING SUBMITTED ELECTRONICALLY TO THE UNITED
STATES PATENT AND TRADEMARK OFFICE ON **2 December**
2016.

/rfasth/

Rolf Fasth
Attorney for Applicant

TRANSMITTAL LETTER

TO THE COMMISSIONER FOR PATENTS:
MAIL STOP PETITION

Enclosed for filing in the above-referenced application are the
following:

- (X) Petition for Withdrawal from Issue After Payment of Issue Fee
under 37 CFR 1.313(c)(2)
- (X) RCE
- (X) Required fees
- (X) The Commissioner is hereby authorized to charge any fees
which may be required in connection with the filing of this
petition and any documents enclosed herewith, or credit
over-payment, to Account No. 06-0243.

Respectfully submitted,
FASTH LAW OFFICES

/rfasth/

Rolf Fasth
Registration No. 36,999

FASTH LAW OFFICES
1206 Stanridge Drive
Raleigh, North Carolina 27613-7063 USA
Tel: +1-910-687-0001
Fax: +1-919-882-1265

Attorney Ref. 290.1078CON

Electronic Patent Application Fee Transmittal

Application Number:	13685544			
Filing Date:	26-Nov-2012			
Title of Invention:	METHOD AND SYSTEM FOR SENDING A MESSAGE THROUGH A SECURE CONNECTION			
First Named Inventor/Applicant Name:	Sami Vaarala			
Filer:	Rolf Fasth/Sloan Smith			
Attorney Docket Number:	290.1078CON			
Filed as Large Entity				
Filing Fees for Utility under 35 USC 111(a)				
Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Basic Filing:				
PETITION FEE- 37 CFR 1.17(H) (GROUP III)	1464	1	140	140
RCE- 1st Request	1801	1	1200	1200
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				
Miscellaneous:				
Total in USD (\$)				1340



UNITED STATES PATENT AND TRADEMARK OFFICE

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

Decision Date: December 2, 2016

In re Application of:

Sami Vaarala

DECISION ON PETITION

UNDER CFR 1.313(c)(2)

Application No: 13685544

Filed: 26-Nov-2012

Attorney Docket No: 290.1078CON

This is an electronic decision on the petition under 37 CFR 1.313(c)(2), filed December 2, 2016, to withdraw the above-identified application from issue after payment of the issue fee.

The petition is **GRANTED**.

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

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

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

This application file is being referred to Technology Center AU 2469 for processing of the request for continuing examination under 37 CFR 1.114 .

Office of Petitions

Electronic Acknowledgement Receipt

EFS ID:	27673217
Application Number:	13685544
International Application Number:	
Confirmation Number:	4882
Title of Invention:	METHOD AND SYSTEM FOR SENDING A MESSAGE THROUGH A SECURE CONNECTION
First Named Inventor/Applicant Name:	Sami Vaarala
Correspondence Address:	Rolf Fasth FASTH LAW OFFICES 26 Pinecrest Plaza, Suite 2 - Southern Pines NC 28387-4301 - -
Filer:	Rolf Fasth/Sloan Smith
Filer Authorized By:	Rolf Fasth
Attorney Docket Number:	290.1078CON
Receipt Date:	02-DEC-2016
Filing Date:	26-NOV-2012
Time Stamp:	09:26:14
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	DA
Payment was successfully received in RAM	\$1340

RAM confirmation Number	120216INTEFSW00007771060243
Deposit Account	060243
Authorized User	Sloan Smith

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	Petition automatically granted by EFS	petition-request.pdf	31532	no	2
			1c770285862828e7ac01b74579f7a6c6cad45d6b		

Warnings:

Information:

2	Request for Continued Examination (RCE)	RCEX.pdf	1350124	no	3
			df846ba9597d9f218a3c4907540ef94ad30cc4aa		

Warnings:

Information:

3	Transmittal Letter	PETITION_WITHDRAWAL_ISSUE.pdf	304280	no	2
			a89f2dda8a934fa6cfd02b975826f52c2effdc38		

Warnings:

Information:

4	Transmittal Letter	TRX.pdf	251264	no	1
			d1c3442129df94f9e81ea33d70f13290f39272ec		

Warnings:

Information:

5	Fee Worksheet (SB06)	fee-info.pdf	32150	no	2
			0a97f184e1b5bc7dbaf7e75324f1c37cc21f352a		

Warnings:

Information:

Total Files Size (in bytes):

1969350

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.

Electronic Petition Request	PETITION TO WITHDRAW AN APPLICATION FROM ISSUE AFTER PAYMENT OF THE ISSUE FEE UNDER 37 CFR 1.313(c)
Application Number	13685544
Filing Date	26-Nov-2012
First Named Inventor	Sami Vaarala
Art Unit	2469
Examiner Name	AFSHAWN TOWFIGHI
Attorney Docket Number	290.1078CON
Title	METHOD AND SYSTEM FOR SENDING A MESSAGE THROUGH A SECURE CONNECTION

An application may be withdrawn from issue for further action upon petition by the applicant. To request that the Office withdraw an application from issue, applicant must file a petition under this section including the fee set forth in § 1.17(h) and a showing of good and sufficient reasons why withdrawal of the application from issue is necessary.

APPLICANT HEREBY PETITIONS TO WITHDRAW THIS APPLICATION FROM ISSUE UNDER 37 CFR 1.313(c).

A grantable petition requires the following items:

- (1) Petition fee; and
- (2) One of the following reasons:
 - (a) Unpatentability of one or more claims, which must be accompanied by an unequivocal statement that one or more claims are unpatentable, an amendment to such claim or claims, and an explanation as to how the amendment causes such claim or claims to be patentable;
 - (b) Consideration of a request for continued examination in compliance with § 1.114 (for a utility or plant application only); or
 - (c) Express abandonment of the application. Such express abandonment may be in favor of a continuing application, but not a CPA under 37 CFR 1.53(d).

Petition Fee
<input type="radio"/> Small Entity
<input type="radio"/> Micro Entity
<input checked="" type="radio"/> Regular Undiscounted
Reason for withdrawal from issue

- One or more claims are unpatentable
- Consideration of a request for continued examination (RCE) (List of Required Documents and Fees)
- Applicant hereby expressly abandons the instant application (any attorney/agent signing for this reason must have power of attorney pursuant to 37 CFR 1.32(b)).

RCE request, submission, and fee.

- I certify, in accordance with 37 CFR 1.4(d)(4) that :
- The RCE request ,submission, and fee have already been filed in the above-identified application on
 - Are attached.

THIS PORTION MUST BE COMPLETED BY THE SIGNATORY OR SIGNATORIES

I certify, in accordance with 37 CFR 1.4(d)(4) that I am:

- An attorney or agent registered to practice before the Patent and Trademark Office who has been given power of attorney in this application.
- An attorney or agent registered to practice before the Patent and Trademark Office, acting in a representative capacity.
- A sole inventor
- A joint inventor; I certify that I am authorized to sign this submission on behalf of all of the inventors as evidenced by the power of attorney in the application
- A joint inventor; all of whom are signing this e-petition

Signature	/rfasth/
Name	Rolf Fasth
Registration Number	36999

FAX RECEIVED

DEC 02 2015

OFFICE OF PETITIONS

FAX COVER SHEET

TO	OfficeofPetitions
COMPANY	USPTO
FAXNUMBER	15712730025
FROM	SloanSmith
DATE	2016-12-02 14:43:34 GMT
RE	Petition under 37 CFR 1.313(c)

COVER MESSAGE

URGENT Petition under 37 CFR 1.313(c)

PETITION FOR WITHDRAWAL FROM ISSUE AFTER PAYMENT OF ISSUE FEE

Attorney Ref. 290.1078CON

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE
In re application of Art Unit 2469

Sami Vaarala, Antti Nuopponen

Serial No. 13/685,544

CERTIFICATE OF MAILING

Filed: 26 November 2012

I HEREBY CERTIFY THAT THIS PAPER AND THE DOCUMENTS REFERRED TO AS BEING ATTACHED OR ENCLOSED HERewith ARE BEING SUBMITTED ELECTRONICALLY TO THE UNITED STATES PATENT AND TRADEMARK OFFICE ON 2 December 2016.

For: METHOD AND SYSTEM FOR
SENDING A MESSAGE
THROUGH A SECURE
CONNECTION

/rfasth/

Examiner: Towfighi, Afshawn M

Rolf Fasth
Attorney for Applicant

Date: 2 December 2016

FAX RECEIVED

DEC 02 2016

TRANSMITTAL LETTER

OFFICE OF PETITIONS

TO THE COMMISSIONER FOR PATENTS:
MAIL STOP PETITION

Enclosed for filing in the above-referenced application are the following:

- (X) Petition for Withdrawal from Issue After Payment of Issue Fee under 37 CFR 1.313(c)(2)
- (X) RCE
- (X) Required fees
- (X) The Commissioner is hereby authorized to charge any fees which may be required in connection with the filing of this petition and any documents enclosed herewith, or credit over-payment, to Account No. 06-0243.

Respectfully submitted,
FASTH LAW OFFICES

/rfasth/
Rolf Fasth
Registration No. 36,999

FASTH LAW OFFICES
1206 Stanridge Drive
Raleigh, North Carolina 27613-7063 USA
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Fax: +1-919-882-1265

Attorney Ref. 290.1078CON

Attorney Docket No. 290.1078CON

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of

Art Unit 2469

5 Sami Vaarala and Antti Nuopponen

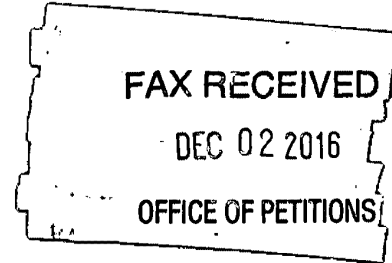
Serial No. 13/685,544

10 Filed: 26 November 2012

For: METHOD AND SYSTEM FOR SENDING A MESSAGE THROUGH A SECURE CONNECTION

15 Examiner: Afshawn M. Towfighi

Date: 2 December 2016



Petition for Withdrawal from Issue After Payment of Issue Fee under 37 CFR 1.313(c)(2)

20

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

25 This is a petition under 37 CFR 1.313(c)(2) to withdraw from issuance after payment of the Issue Fee. The Issue Fee was paid on 6 January 2014 in response to a 21 October 2013 Notice of Allowance. A Request for Continued Examination under 37 CFR 1.114 is being filed concurrently herewith. The claim of priority of the current application
30 needs to be corrected. A petition under 37 CFR 1.55(e) was filed on 27 May 2016, to accept an unintentionally delayed claim under 35 USC 119. This petition was dismissed without prejudice on 17 August 2016 because the current application had not yet been revived. The petition to revive the
35 application under 37 CFR 1.137 was granted on 17 November 2016 and received on 28 November 2016. The petition under 37 CFR 1.55(e) to correct the claim of priority is going to be re-submitted under a separate cover.

RF Attorney Docket No. 290.1078CON 12/2/16 - 2 -

I certify, in accordance with 37 CFR 1.4(d)(4) that
I am an attorney or agent registered to practice before PTO.

5

Respectfully submitted,

FASTH LAW OFFICES

10

/rfasth/

Rolf Fasth
Registration No. 36,999

15

ATTORNEY DOCKET NO. 290.1078CON

FASTH LAW OFFICES
1206 Stanridge Drive
Raleigh, North Carolina 27613-7063 USA
Tel: +1-910-687-0001
Fax: +1-919-882-1265

Electronic Acknowledgement Receipt	
EFS ID:	27673217
Application Number:	13685544 FAX RECEIVED
International Application Number:	DEC 02 2016
Confirmation Number:	4882 OFFICE OF PETITIONS
Title of Invention:	METHOD AND SYSTEM FOR SENDING A MESSAGE THROUGH A SECURE CONNECTION
First Named Inventor/Applicant Name:	Sami Vaarala
Correspondence Address:	Rolf Fasth FASTH LAW OFFICES 26 Pinecrest Plaza, Suite 2 - Southern Pines NC 28387-4301 - -
Filer:	Rolf Fasth/Sloan Smith
Filer Authorized By:	Rolf Fasth
Attorney Docket Number:	290.1078CON
Receipt Date:	02-DEC-2016
Filing Date:	26-NOV-2012
Time Stamp:	09:26:14
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	DA
Payment was successfully received in RAM	\$ 1340

RAM confirmation Number		170216INTEFSW00007771060243			
Deposit Account		060243			
Authorized User		Sloan Smith			
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	Petition automatically granted by EFS	petition-request.pdf	31532	no	2
			1c770285863228c7ae011a74579f7a6c6c0d15d6b		
Warnings:					
Information:					
2	Request for Continued Examination (RCE)	RCEX.pdf	1350124	no	3
			d7810b09397d9f218a3c907510ef94bd3cc9432		
Warnings:					
Information:					
3	Transmittal Letter	PETITION_WITHDRAWAL_ISSUE.pdf	304280	no	2
			a09f2dd8a934fa6cf0d02975526fb2deffd c38		
Warnings:					
Information:					
4	Transmittal Letter	TRX.pdf	251264	no	1
			d1c0442129d94f9e31ea33d70f1329079272ec		
Warnings:					
Information:					
5	Fee Worksheet (SB06)	fee-info.pdf	32150	no	2
			0a7f7104e1b5bc7dba7e75324f1c37cc21f357a		
Warnings:					
Information:					

Total Files Size (in bytes):	1969350
<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>	



UNITED STATES PATENT AND TRADEMARK OFFICE

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

Decision Date : December 2, 2016

In re Application of :

Sami Vaarala

DECISION ON PETITION

UNDER CFR 1.313(c)(2)

Application No : 13685544

Filed : 26-Nov-2012

Attorney Docket No : 290.1078CON

This is an electronic decision on the petition under 37 CFR 1.313(c)(2), filed December 2, 2016, to withdraw the above-identified application from issue after payment of the issue fee.

The petition is **GRANTED**.

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

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

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

This application file is being referred to Technology Center AU 2469 for processing of the request for continuing examination under 37 CFR 1.114.

Office of Petitions

Doc code: RCEX
 Doc description: Request for Continued Examination (RCE)

PTO/SB/30EFS (07-14)
 Approved for use through 07/31/2016. OMB 0651-0031
 U.S. Patent and Trademark Office, U.S. DEPARTMENT OF COMMERCE
 Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

REQUEST FOR CONTINUED EXAMINATION(RCE)TRANSMITTAL (Submitted Only via EFS-Web)							
Application Number	13685544	Filing Date	2012-11-26	Docket Number (if applicable)	290.1078CON	Art Unit	2469
First Named Inventor	Sami Vaarala		Examiner Name	Afshawn M. Towfighi			
<p>This is a Request for Continued Examination (RCE) under 37 CFR 1.114 of the above-identified application. Request for Continued Examination (RCE) practice under 37 CFR 1.114 does not apply to any utility or plant application filed prior to June 8, 1995, to any international application that does not comply with the requirements of 35 U.S.C. 371, or to any design application. The Instruction Sheet for this form is located at WWW.USPTO.GOV.</p>							
SUBMISSION REQUIRED UNDER 37 CFR 1.114							
<p>Note: If the RCE is proper, any previously filed unentered amendments and amendments enclosed with the RCE will be entered in the order in which they were filed unless applicant instructs otherwise. If applicant does not wish to have any previously filed unentered amendment(s) entered, applicant must request non-entry of such amendment(s).</p>							
<p><input type="checkbox"/> Previously submitted. If a final Office action is outstanding, any amendments filed after the final Office action may be considered as a submission even if this box is not checked.</p> <p style="text-align: right; font-weight: bold; font-size: 1.2em;">FAX RECEIVED DEC 02 2016 OFFICE OF PETITIONS</p> <p style="margin-left: 40px;"><input type="checkbox"/> Consider the arguments in the Appeal Brief or Reply Brief previously filed on _____</p> <p style="margin-left: 40px;"><input type="checkbox"/> Other _____</p>							
<p><input checked="" type="checkbox"/> Enclosed</p> <p style="margin-left: 40px;"><input type="checkbox"/> Amendment/Reply</p> <p style="margin-left: 40px;"><input type="checkbox"/> Information Disclosure Statement (IDS)</p> <p style="margin-left: 40px;"><input type="checkbox"/> Affidavit(s)/ Declaration(s)</p> <p style="margin-left: 40px;"><input checked="" type="checkbox"/> Other <u>Petition for Withdrawal from Issue After Payment of Issue Fee under 37 CFR 1.313(c)(2)</u></p>							
MISCELLANEOUS							
<p><input type="checkbox"/> Suspension of action on the above-identified application is requested under 37 CFR 1.103(c) for a period of months _____ (Period of suspension shall not exceed 3 months; Fee under 37 CFR 1.17(i) required)</p> <p><input type="checkbox"/> Other _____</p>							
FEES							
<p><input checked="" type="checkbox"/> The RCE fee under 37 CFR 1.17(e) is required by 37 CFR 1.114 when the RCE is filed. The Director is hereby authorized to charge any underpayment of fees, or credit any overpayments, to Deposit Account No <u>060243</u></p>							
SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT REQUIRED							
<p><input checked="" type="checkbox"/> Patent Practitioner Signature</p> <p><input type="checkbox"/> Applicant Signature</p>							

Doc code: RCEX
 Doc description: Request for Continued Examination (RCE)

PTO/SB/30EFS (07-14)
 Approved for use through 07/31/2016. OMB 0651-0031
 U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
 Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Signature of Registered U.S. Patent Practitioner			
Signature	/rfasth/	Date (YYYY-MM-DD)	2016-12-02
Name	Rolf Fasth	Registration Number	36999
Applicant Signature			
Applicant	1		<input type="button" value="Remove"/>
Signature		Date (YYYY-MM-DD)	
Name			
Click ADD for additional Applicant Signature			<input type="button" value="Add"/>

This collection of information is required by 37 CFR 1.114. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450.

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

FAX RECEIVED

DEC 02 2016

OFFICE OF PETITIONS

Privacy Act Statement

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

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

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

*** RX REPORT ***

RECEPTION OK

TX/RX NO	8675
RECIPIENT ADDRESS	19198821265
DESTINATION ID	
ST. TIME	12/02 11:10
TIME USE	11'20
PGS.	11
RESULT	OK

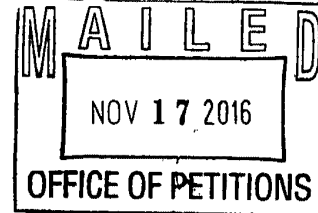
FAX RECEIVED
DEC 02 2016
OFFICE OF PETITIONS



UNITED STATES PATENT AND TRADEMARK OFFICE

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

ROLF FASTH
FASTH LAW OFFICES
26 PINECREST PLAZA SUITE 2
SOUTHERN PINES NC 28387-4301



In re Application of :
Vaarala, et al. :
Application No. 13/685,544 : ON PETITION
Filed: November 26, 2012 :
Attorney Docket No. 290.1078CON :

This is a decision on the petition to revive under 37 CFR 1.137(a), filed February 26, 2016.

The petition under 37 CFR 1.137(a) is GRANTED.

The above-identified application became abandoned for failure to file an oath or declaration no later than payment of the issue fee. Applicants paid the issue fee on January 6, 2014 (in response to an October 21, 2013 Notice of Allowance). No oath or declaration having been filed on or before that date, the application became abandoned on January 7, 2014. The Office mailed a Notice of Abandonment on August 7, 2014. Applicants filed a petition to withdraw the holding of abandonment on September 18, 2014. However, the petition was dismissed in a decision mailed on February 16, 2016.

With the instant petition, petitioner has paid the petition fee, made the proper statement of unintentional delay, and filed the required reply in the form of a 37 CFR 1.63 declaration from both of the co-inventors.

The application is being forwarded to the Office of Data Management for processing into a patent.

Telephone inquiries related to this decision should be directed to the undersigned at (571)272-3207.

/Cliff Congo/
Cliff Congo
Attorney Advisor
Office of Petitions



UNITED STATES PATENT AND TRADEMARK OFFICE

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

ROLF FASTH
FASTH LAW OFFICES
26 PINECREST PLAZA, SUITE 2
SOUTHERN PINES NC 28387-4301

MAILED

AUG 17 2016

INTERNATIONAL PATENT LEGAL ADM.

In re Application of	:	
MPH TECHNOLOGIES OY	:	
Application No.: 13/685,544	:	DECISION ON PETITION
Filing Date: November 26, 2012	:	UNDER 37 CFR 1.55(e)
Attorney Docket No.: 290.1078CON	:	
	:	
	:	

This is a decision on the petition under 37 CFR 1.55(e), filed May 27, 2016, to accept an unintentionally delayed claim under 35 U.S.C. 119(a) through (d) or (f) and/or 35 U.S.C. 365(a) or (b) for priority to one or more prior foreign applications.

Under 37 CFR 1.55(e), a petition to accept an unintentionally delayed claim under 35 U.S.C. 119(a) through (d) or (f) and/or 35 U.S.C. 365(a) or (b) for the benefit of a prior-filed foreign application must be accompanied by:

- (i) the claim required by 35 U.S.C. 119 and 37 CFR 1.55(e)(1) to the prior-filed application, unless previously submitted;
- (ii) a certified copy of the foreign application, if required by 37 CFR 1.55(f), unless previously submitted or an exception under 37 CFR 1.55(h), (i), or (j) applies;
- (iii) the petition fee set forth in 37 CFR 1.17(m); and
- (iv) a statement that the entire delay between the date the priority claim was due under 37 CFR 1.55(d) and the date the claim was filed was unintentional. The Director may require additional information where there is a question whether the delay was unintentional.

With regard to item (i), MPEP 211.02(a), Section II., "Adding Benefit Claims", states in relevant part, "An amendment or ADS filed after final rejection or allowance is not entered as a matter of right and must be filed in compliance with 37 CFR 1.116 or 1.312, respectively." Furthermore, any submission under 37 CFR 1.312 must be made before or with payment of the issue fee. 37 CFR 1.312. Because the issue fee has already been paid in the present application, entry of an

application data sheet at this time is not permitted. Accordingly, if the instant application is revived, applicant may wish to consider filing an appropriate petition under 37 CFR 1.313(c)(2) along with a request for continued examination under 37 CFR 1.114.

With regard to item (ii), the certified copy requirement has not been satisfied.

With regard to item (iii), the petition fee set forth in 37 CFR 1.17(m) has been submitted.

With regard to item (iv), the statement of unintentional delay contained in the petition differs slightly from the language contained in 37 CFR 1.55(e)(4) and is hereby construed as a statement that the entire delay between the date the priority claim was due under 37 CFR 1.55(d) and the date the claim was filed was unintentional. If this interpretation is incorrect, applicant is required to immediately notify the Office. As construed, the provided statement of unintentional delay is acceptable.

For the reasons above, the petition under 37 CFR 1.55(e) is **DISMISSED** without prejudice.

Any further correspondence with respect to this matter may be filed electronically via EFS-Web selecting the document description "Petition for review and processing by the PCT Legal Office" or by mail addressed to Mail Stop PCT, Commissioner for Patents, International Patent Legal Administration, P.O. Box 1450, Alexandria, Virginia 22313-1450, with the contents of the letter marked to the attention of the International Patent Legal Administration.



Bryan Lin
PCT Legal Examiner
International Patent Legal Administration
571-272-3303

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of

Art Unit 2469

5 Sami Vaarala and Antti Nuopponen

Serial No. 13/685,544

10 Filed: 26 November 2012

For: METHOD AND SYSTEM FOR SENDING A MESSAGE THROUGH A SECURE
CONNECTION

15 Examiner: Afshawn M. Towfighi

Date: 24 June 2016

Attorney Docket No. 290.1078CON

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PETITION TO ACCEPT UNINTENTIONALLY DELAYED CLAIM OF PRIORITY
(37 CFR 1.55(e))

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

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This is a petition under 37 CFR 1.55(e) to accept an unintentionally delayed claim of priority under 35 USC 119(a) through (d) or (f), 365(a) or (b), or 386(a) or (b). A revised application data sheet (ADS) is being submitted concurrently herewith via EFS Web. The Commissioner is hereby authorized to charge the petition fee, as set forth in section 1.17(m) or other any fee which may be required in connection with the filing of this correspondence, or credit over-

35

The entire delay between the date the priority claim was due under this section and the date the priority claim was filed was unintentional.

40

Petitioner requests that the delayed claim of priority be accepted and that the additional priority dates be included in the patent application.

45

A PETITION FOR REVIVAL OF AN APPLICATION FOR PATENT ABANDONED UNINTENTIONALLY UNDER 37 CFR 1.137 was filed on 26 February 2016. A copy of this petition is enclosed.

I certify, in accordance with 37 CFR 1.4(d)(4) that
I am an attorney or agent registered to practice before PTO.

5

Respectfully submitted,

FASTH LAW OFFICES

10

/rfasth/

Rolf Fasth
Registration No. 36,999

15

ATTORNEY DOCKET NO. 290.1078CON

20

FASTH LAW OFFICES
26 Pinecrest Plaza, Suite 2
Southern Pines, NC 28387-4301

Telephone: (910) 687-0001
Facsimile: (910) 295-2152

Attorney Ref. 290.1078CON

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE
In re application of Art Unit 2469

Sami Vaarala, Antti Nuopponen

Serial No. 13/685,544

Filed: 26 November 2012

For: METHOD AND SYSTEM FOR
SENDING A MESSAGE
THROUGH A SECURE
CONNECTION

Examiner: Towfighi, Afshawn M

Date: 24 June 2016

CERTIFICATE OF MAILING

I HEREBY CERTIFY THAT THIS PAPER AND THE DOCUMENTS
REFERRED TO AS BEING ATTACHED OR ENCLOSED HERewith
ARE BEING SUBMITTED ELECTRONICALLY TO THE UNITED
STATES PATENT AND TRADEMARK OFFICE ON **24 June 2016**.

/rfasth/

Rolf Fasth
Attorney for Applicant

TRANSMITTAL LETTER

TO THE COMMISSIONER FOR PATENTS:
MAIL STOP PETITION

Enclosed for filing in the above-referenced application are the
following:

- (X) PETITION TO ACCEPT UNINTENTIONALLY DELAYED CLAIM
OF PRIORITY (37 CFR 1.55(e))
- (X) Required fee
- (X) Corrected ADS
- (X) Copy of Petition to Revive dated 26 February 2016
- (X) The Commissioner is hereby authorized to charge any fees
which may be required in connection with the filing of this
petition and any documents enclosed herewith, or credit
over-payment, to Account No. 06-0243.

Respectfully submitted,
FASTH LAW OFFICES

/rfasth/

Rolf Fasth
Registration No. 36,999

FASTH LAW OFFICES
26 Pinecrest Plaza, Suite 2
Southern Pines, NC 28387-4301
Telephone: 910-687-0001
Facsimile: 910-295-2152

Attorney Ref. 290.1078CON

Electronic Acknowledgement Receipt

EFS ID:	26170086
Application Number:	13685544
International Application Number:	
Confirmation Number:	4882
Title of Invention:	METHOD AND SYSTEM FOR SENDING A MESSAGE THROUGH A SECURE CONNECTION
First Named Inventor/Applicant Name:	Sami Vaarala
Correspondence Address:	ROLF FASTH FASTH LAW OFFICES 26 PINECREST PLAZA, SUITE 2 - SOUTHERN PINES NC 28387-4301 US - -
Filer:	Rolf Fasth/Sloan Smith
Filer Authorized By:	Rolf Fasth
Attorney Docket Number:	290.1078CON
Receipt Date:	24-JUN-2016
Filing Date:	26-NOV-2012
Time Stamp:	15:44:23
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no
File Listing:	

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Miscellaneous Incoming Letter	COPY_PET_REVIVE.pdf	1917674 145188f61947d627fd79eaa706ebfb6c360f83a4	no	2
Warnings:					
Information:					
2	Application Data Sheet	CORRECTED_ADS.pdf	6622769 897cdbb470ce4df4a2f54ee7a636fb07a867557b	no	5
Warnings:					
Information:					
This is not an USPTO supplied ADS fillable form					
3	Petition for review by the PCT legal office	PETITION_DELAYED_PRIORITY.pdf	345451 531caffe9b7e518e202b5876cd269725cd9cca11	no	2
Warnings:					
Information:					
4	Transmittal Letter	TRX.pdf	253331 6767a66a17dbec4085244f96738a76442e41d514	no	1
Warnings:					
Information:					
Total Files Size (in bytes):			9139225		
<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>					

Doc Code: PET.OP

Document Description: Petition for Review by the Office of Patents

COPY

PTO/RS/BA (12-12)
Approved for use through 07/31/2016. OMB 0651-0011
U.S. Patent and Trademark Office, U.S. DEPARTMENT OF COMMERCE

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

PETITION FOR REVIVAL OF AN APPLICATION FOR PATENT ABANDONED UNINTENTIONALLY UNDER 37 CFR 1.137(a)		Docket Number (Optional) 290.1078CON
Page 1 of 2		
First named inventor: Sami Vaarala		
Application No.: 13/685,544	Art Unit: 2469	
Filed: 26 November 2012	Examiner: Towfighi, Afshawn M	
Title:	METHOD AND SYSTEM FOR SENDING A MESSAGE THROUGH A SECURE CONNECTION	
Attention: Office of Patents Mail Stop Petition Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450 FAX (571) 273-8300		
NOTE: If information or assistance is needed in completing this form, please contact the Office of Patents at (571) 272-3282.		
The above-identified application became abandoned for failure to file a timely and proper reply to a notice or action by the United States Patent and Trademark Office. The date of abandonment is the day after the expiration date of the period set for reply in the Office notice or action plus any extensions of time actually obtained.		
APPLICANT HEREBY PETITIONS FOR REVIVAL OF THIS APPLICATION.		
NOTE: A grantable petition requires the following items:		
(1) Petition fee;		
(2) Reply and/or issue fee;		
(3) Terminal disclaimer with disclaimer fee - required for all utility and plant applications filed before June 8, 1995, and for all design applications; and		
(4) Statement that the entire delay was unintentional.		
1. Petition fee		
<input type="checkbox"/> Small entity fee \$ (37 CFR 1.17(m)). Applicant asserts small entity status. See 37 CFR 1.27.		
<input checked="" type="checkbox"/> Undiscounted fee \$ 1700 (37 CFR 1.17(m)).		
2. Reply and/or fee		
A The reply and/or fee to the above-noted Office notice or action in the form of		
Oath or Declaration of Inventors (Identify the type of reply):		
<input checked="" type="checkbox"/> has been filed previously on 18 September 2014		
<input type="checkbox"/> is enclosed herewith.		
B The issue fee and publication fee (if applicable) of \$ 960		
<input checked="" type="checkbox"/> has been paid previously on 6 January 2014		
<input type="checkbox"/> is enclosed herewith.		

This collection of information is required by 37 CFR 1.117(a). The information is required to obtain or retain a benefit by the public which is to be (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11, 1.14 and 41.6. This collection is estimated to take 1 hour to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. **DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop Petition, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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

Doc Code: PET.OP

Document Description: Petition for Review by the Office of Patents

COPY

PTO/SB/64 (12-13)

Approved for use through 07/12/2016. OMB 0651-0031

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

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

PETITION FOR REVIVAL OF AN APPLICATION FOR PATENT
ABANDONED UNINTENTIONALLY UNDER 37 CFR 1.137(a)

Page 2 of 2

3. Terminal disclaimer with disclaimer fee

- Since this utility/plant application was filed on or after June 8, 1995, no terminal disclaimer is required.
- A terminal disclaimer (and disclaimer fee (37 CFR 1.20(a)) of \$ _____) disclaiming the required period of time is enclosed herewith (see PTO/SB/63).

4. STATEMENT: The entire delay in filing the required reply from the due date for the required reply until the filing of a grantable petition under 37 CFR 1.137(a) was unintentional. [NOTE: The United States Patent and Trademark Office may require additional information if there is a question as to whether either the abandonment or the delay in filing a petition under 37 CFR 1.137(a) was unintentional. (MPEP 711.03(c), subsections (III)(C) and (D).)]

WARNING:

Petitioner/applicant is cautioned to avoid submitting personal information in documents filed in a patent application that may contribute to identity theft. Personal information such as social security numbers, bank account numbers, or credit card numbers (other than a check or credit card authorization form PTO 2088 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.

/rfash/
Signature

26 February 2016
Date

Rolf Fasth
Typed or Printed Name

36999
Registration Number, if applicable

26 Pinecrest Plaza, Suite 2
Address

(910) 687-0001
Telephone Number

Southern Pines, NC 28387
Address

Enclosures:

- Fee Payment
- Reply
- Terminal Disclaimer Form
- Additional sheet(s) containing statements establishing unintentional delay
- Other: _____

CERTIFICATE OF MAILING OR TRANSMISSION [37 CFR 1.8(a)]

I hereby certify that this correspondence is being

- Deposited with the United States Postal Service on the date shown below with sufficient postage as first class mail in an envelope addressed to: Mail Stop Petition, Commissioner for Patents, P. O. Box 1450, Alexandria, VA 22313-1450.
- Transmitted by EFS Web or facsimile on the date shown below to the United States Patent and Trademark Office at (571) 273-8300.

26 February 2016
Date

/rfash/
Signature

Rolf Fasth
Typed or printed name of person signing certificate

Application Data Sheet 37 CFR 1.76	Attorney Docket Number 290 1075CON
Application Number	

Title of Invention: METHOD AND SYSTEM FOR SENDING A MESSAGE THROUGH A SECURE CONNECTION

The application data sheet is part of the provisional or nonprovisional application for which it is being submitted. The following form contains the bibliographic data arranged in a format specified by the United States Patent and Trademark Office as outlined in 37 CFR 1.76. This document may be completed electronically and submitted to the Office in electronic format using the Electronic Filing System (EFS) or the document may be printed and included in a paper filed application.

Secrecy Order 37 CFR 5.2

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

Inventor Information:

Inventor 1 Legal Name	Remove				
Prefix	Given Name	Middle Name	Family Name	Suffix	
	Santi		Vaarcia		
Residence Information (Select One) <input type="radio"/> US Residency <input checked="" type="radio"/> Non US Residency <input type="radio"/> Active US Military Service					
City	Espoo	Country of Residence		FI	

Mailing Address of Inventor:

Address 1	Saterninkka 8 B 37				
Address 2					
City	FI-02600 Espoo	State/Province	Country	FI	
Postal Code					

Inventor 2 Legal Name

Remove					
Prefix	Given Name	Middle Name	Family Name	Suffix	
	Antti		Muopperon		
Residence Information (Select One) <input type="radio"/> US Residency <input checked="" type="radio"/> Non US Residency <input type="radio"/> Active US Military Service					
City	Espoo	Country of Residence		FI	

Mailing Address of Inventor:

Address 1	Kaisankuivitie 7-9 A 1				
Address 2					
City	FI-02750 Espoo	State/Province	Country	FI	
Postal Code					

All Inventors Must Be Listed - Additional inventor information blocks may be generated within this form by selecting the Add button.

Correspondence Information:

Add

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	290 1078CON
		Application Number	
Title of Invention	METHOD AND SYSTEM FOR SENDING A MESSAGE THROUGH A SECURE CONNECTION		
Enter either Customer Number or complete the Correspondence Information section below. For further information see 37 CFR 1.33(a).			
<input type="checkbox"/> An Address is being provided for the correspondence information of this application.			
Customer Number	33369		
Email Address	sloan.smith@fastlaw.com	<input type="button" value="Add Email"/>	<input type="button" value="Remove Email"/>

Application Information:

Title of the Invention	METHOD AND SYSTEM FOR SENDING A MESSAGE THROUGH A SECURE CONNECTION		
Attorney Docket Number	290 1078CON	Small Entity Status Claimed	<input type="checkbox"/>
Application Type	Nonprovisional		
Subject Matter	Utility		
Suggested Class (if any)		Sub Class (if any)	
Suggested Technology Center (if any)			
Total Number of Drawing Sheets (if any)	2	Suggested Figure for Publication (if any)	

Publication Information:

<input type="checkbox"/> Request Early Publication (Fee required at time of Request 37 CFR 1.219)	
<input type="checkbox"/> 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	<input checked="" type="radio"/> Customer Number	<input type="radio"/> US Patent Practitioner	<input type="radio"/> Limited Recognition (37 CFR 11.9)
Customer Number	33369		

Domestic Benefit/National Stage Information:

This section allows for the applicant to either claim benefit under 35 U.S.C. 119(e), 120, 121, or 365(c) or indicate National Stage entry from a PCT application. Providing this information in the application data sheet constitutes the specific reference required by 35 U.S.C. 119(e) or 120, and 37 CFR 1.78.	
Prior Application Status	Pending <input type="button" value="Remove"/>

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	290 1078CON
		Application Number	
Title of Invention:	METHOD AND SYSTEM FOR SENDING A MESSAGE THROUGH A SECURE CONNECTION		
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)
	Continuation of	10500930	2005-10-19
Prior Application Status	<input type="button" value="Remove"/>		
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)
10500930	a 371 of international	PCT/EI03/00045	2003-01-21
Additional Domestic Benefit/National Stage Data may be generated within this form by selecting the Add button.			

Foreign Priority Information:

This section allows for the applicant to claim benefit of foreign priority and to identify any prior foreign application for which priority is not claimed. 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(a).

			<input type="button" value="Remove"/>
Application Number	Country	Filing Date (YYYY-MM-DD)	Priority Claimed
20020112	FI	2002-01-22	<input checked="" type="radio"/> Yes <input type="radio"/> No
Additional Foreign Priority Data may be generated within this form by selecting the Add button.			

Authorization to Permit Access:

Authorization to Permit Access to the Instant Application by the Participating Offices

If checked, the undersigned hereby grants the USPTO authority to provide the European Patent Office (EPO), the Japan Patent Office (JPO), the Korean Intellectual Property Office (KIPO), the World Intellectual Property Office (WIPO), and any other intellectual property offices in which a foreign application claiming priority to the instant patent application is filed access to the instant patent application. See 37 CFR 1.14(c) and (h). This box should not be checked if the applicant does not wish the EPO, JPO, KIPO, WIPO, or other intellectual property office in which a foreign application claiming priority to the instant patent application is filed to have access to the instant patent application.

In accordance with 37 CFR 1.14(h)(3), access will be provided to a copy of the instant patent application with respect to: 1) the instant patent application-as-filed; 2) any foreign application to which the instant patent application claims priority under 35 U.S.C. 119(a)-(d) if a copy of the foreign application that satisfies the certified copy requirement of 37 CFR 1.55 has been filed in the instant patent application, and 3) any U.S. application-as-filed from which benefit is sought in the instant patent application.

In accordance with 37 CFR 1.14(f), access may be provided to information concerning the date of filing this Authorization.

Applicant Information:

Providing assignment information in this section does not substitute for compliance with any requirement of part 3 of Title 37 of CFR to have an assignment recorded by the Office.

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	290.1078CON
	Application Number	

Title of Invention	METHOD AND SYSTEM FOR SENDING A MESSAGE THROUGH A SECURE CONNECTION
--------------------	---

Applicant 1

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.

<input type="radio"/> Assignee	<input type="radio"/> Legal Representative under 35 U.S.C. 117
--------------------------------	--

<input type="radio"/> Person to whom the inventor is obligated to assign.	<input type="radio"/> Person who shows sufficient proprietary interest
---	--

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

Name of the Deceased or Legally Incapacitated Inventor:

If the Assignee is an Organization check here.

Prefix	Given Name	Middle Name	Family Name	Suffix

Mailing Address Information:

Address 1			
Address 2			
City		State/Province	
Country		Postal Code	
Phone Number		Fax Number	
Email Address			

Additional Applicant Data may be generated within this form by selecting the Add button.

Signature:

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

Signature		Date (YYYY-MM-DD)	
First Name	Last Name	Registration Number	

Additional Signature may be generated within this form by selecting the Add button.

Signature:

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

Signature	/r/astv	Date (YYYY-MM-DD)	2010-06-24
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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	290.1076CON		
		Application Number			
Title of Invention	METHOD AND SYSTEM FOR SENDING A MESSAGE THROUGH A SECURE CONNECTION				
First Name	Roll	Last Name	Fax	Registration Number	36999
Additional Signature may be generated within this form by selecting the Add button.					

This collection of information is required by 37 CFR 1.76. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 23 minutes to complete, including gathering, preparing, and submitting the completed application data sheet form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1460, Alexandria, VA 22313-1460. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of

Art Unit 2469

5 Sami Vaarala and Antti Nuopponen

Serial No. 13/685,544

10 Filed: 26 November 2012

For: METHOD AND SYSTEM FOR SENDING A MESSAGE THROUGH A SECURE
CONNECTION

15 Examiner: Afshawn M. Towfighi

Date: 19 May 2016

Attorney Docket No. 290.1078CON

20

PETITION TO ACCEPT UNINTENTIONALLY DELAYED CLAIM OF PRIORITY
(37 CFR 1.55(e))

25

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

30

This is a petition under 37 CFR 1.55(e) to accept an unintentionally delayed claim of priority under 35 USC 119(a) through (d) or (f), 365(a) or (b), or 386(a) or (b). A revised application data sheet (ADS) is being submitted concurrently herewith via EFS Web. The Commissioner is hereby authorized to charge the petition fee, as set forth in section 1.17(m) or other any fee which may be required in connection with the filing of this correspondence, or credit over-

35

The entire delay between the date the priority claim was due under this section and the date the priority claim was filed was unintentional.

40

Petitioner requests that the delayed claim of priority be accepted and that the additional priority dates be included in the patent application.

45

A PETITION FOR REVIVAL OF AN APPLICATION FOR PATENT ABANDONED UNINTENTIONALLY UNDER 37 CFR 1.137 was filed on 26 February 2016. A copy of this petition is enclosed.

I certify, in accordance with 37 CFR 1.4(d)(4) that
I am an attorney or agent registered to practice before PTO.

5

Respectfully submitted,

FASTH LAW OFFICES

10

/rfasth/

Rolf Fasth
Registration No. 36,999

15

ATTORNEY DOCKET NO. 290.1078CON

20

FASTH LAW OFFICES
26 Pinecrest Plaza, Suite 2
Southern Pines, NC 28387-4301

Telephone: (910) 687-0001
Facsimile: (910) 295-2152

Attorney Ref. 290.1078CON

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE
In re application of Art Unit 2469

Sami Vaarala, Antti Nuopponen

Serial No. 13/685,544

Filed: 26 November 2012

For: METHOD AND SYSTEM FOR
SENDING A MESSAGE
THROUGH A SECURE
CONNECTION

Examiner: Towfighi, Afshawn M

Date: 27 May 2016

CERTIFICATE OF MAILING

I HEREBY CERTIFY THAT THIS PAPER AND THE DOCUMENTS
REFERRED TO AS BEING ATTACHED OR ENCLOSED HERewith
ARE BEING SUBMITTED ELECTRONICALLY TO THE UNITED
STATES PATENT AND TRADEMARK OFFICE ON **27 May 2016**.

/rfasth/

Rolf Fasth
Attorney for Applicant

TRANSMITTAL LETTER

TO THE COMMISSIONER FOR PATENTS:
MAIL STOP PETITION

Enclosed for filing in the above-referenced application are the
following:

- (X) PETITION TO ACCEPT UNINTENTIONALLY DELAYED CLAIM
OF PRIORITY (37 CFR 1.55(e))
- (X) Required fee
- (X) Corrected ADS submitted concurrently herewith via EFS WEB
- (X) Copy of Petition to Revive dated 26 February 2016
- (X) The Commissioner is hereby authorized to charge any fees
which may be required in connection with the filing of this
petition and any documents enclosed herewith, or credit
over-payment, to Account No. 06-0243.

Respectfully submitted,
FASTH LAW OFFICES

/rfasth/

Rolf Fasth
Registration No. 36,999

FASTH LAW OFFICES
26 Pinecrest Plaza, Suite 2
Southern Pines, NC 28387-4301
Telephone: 910-687-0001
Facsimile: 910-295-2152

Attorney Ref. 290.1078CON

Electronic Patent Application Fee Transmittal

Application Number:	13685544			
Filing Date:	26-Nov-2012			
Title of Invention:	METHOD AND SYSTEM FOR SENDING A MESSAGE THROUGH A SECURE CONNECTION			
First Named Inventor/Applicant Name:	Sami Vaarala			
Filer:	Rolf Fasth/Sloan Smith			
Attorney Docket Number:	290.1078CON			
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:				
Pet. Delay Sub or Restore Priority-Claim	1454	1	1700	1700
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 (\$)				1700

Electronic Acknowledgement Receipt

EFS ID:	25912351
Application Number:	13685544
International Application Number:	
Confirmation Number:	4882
Title of Invention:	METHOD AND SYSTEM FOR SENDING A MESSAGE THROUGH A SECURE CONNECTION
First Named Inventor/Applicant Name:	Sami Vaarala
Correspondence Address:	ROLF FASTH FASTH LAW OFFICES 26 PINECREST PLAZA, SUITE 2 - SOUTHERN PINES NC 28387-4301 US - -
Filer:	Rolf Fasth/Sloan Smith
Filer Authorized By:	Rolf Fasth
Attorney Docket Number:	290.1078CON
Receipt Date:	27-MAY-2016
Filing Date:	26-NOV-2012
Time Stamp:	16:51:50
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	Deposit Account
Payment was successfully received in RAM	\$1700

RAM confirmation Number	6353				
Deposit Account	060243				
Authorized User	SMITH, SLOAN				
<p>The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:</p> <ul style="list-style-type: none"> Charge any Additional Fees required under 37 CFR 1.16 (National application filing, search, and examination fees) Charge any Additional Fees required under 37 CFR 1.17 (Patent application and reexamination processing fees) Charge any Additional Fees required under 37 CFR 1.19 (Document supply fees) Charge any Additional Fees required under 37 CFR 1.20 (Post Issuance fees) Charge any Additional Fees required under 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	Application Data Sheet	CORRECTED_ADS.pdf	5589847 <small>589e2e840af50eef3dfe6e0768027b5b4cbf8ba0</small>	no	5
Warnings:					
Information:					
This is not an USPTO supplied ADS fillable form					
2	Miscellaneous Incoming Letter	COPY_PET_REVIVE.pdf	1917674 <small>145188f61947d627fd79eaa706ebfb6c360f83a4</small>	no	2
Warnings:					
Information:					
3	Petition for review by the Office of Petitions	PETITION_DELAYED_PRIORITY_CLAIM.pdf	345121 <small>2234d6655cb8f2a33df2c747cf6f3083a0d579467</small>	no	2
Warnings:					
Information:					
4	Transmittal Letter	TRX.pdf	257754 <small>8d47875e945092d37f63794d87e3a6afee894d5b</small>	no	1
Warnings:					
Information:					
5	Fee Worksheet (SB06)	fee-info.pdf	30548 <small>969d96e48f7ca2f1261813abe6f825cef5b2f3e3</small>	no	2
Warnings:					
Information:					
Total Files Size (in bytes):			8140944		

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.

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	290.1078CON
		Application Number	
Title of Invention	METHOD AND SYSTEM FOR SENDING A MESSAGE THROUGH A SECURE CONNECTION		
The application data sheet is part of the provisional or nonprovisional application for which it is being submitted. The following form contains the bibliographic data arranged in a format specified by the United States Patent and Trademark Office as outlined in 37 CFR 1.76. This document may be completed electronically and submitted to the Office in electronic format using the Electronic Filing System (EFS) or the document may be printed and included in a paper filed application.			

Secrecy Order 37 CFR 5.2

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

Inventor Information:

Inventor 1					Remove
Legal Name					
Prefix	Given Name	Middle Name	Family Name	Suffix	
	Sami		Vaarala		
Residence Information (Select One) <input type="radio"/> US Residency <input checked="" type="radio"/> Non US Residency <input type="radio"/> Active US Military Service					
City	Espoo	Country of Residence		FI	
Mailing Address of Inventor:					
Address 1	Saterrinne 8 B 37				
Address 2					
City	FI-02600 Espoo	State/Province			
Postal Code	FI	Country	FI		
Inventor 2					Remove
Legal Name					
Prefix	Given Name	Middle Name	Family Name	Suffix	
	Antti		Nuopponen		
Residence Information (Select One) <input type="radio"/> US Residency <input checked="" type="radio"/> Non US Residency <input type="radio"/> Active US Military Service					
City	Espoo	Country of Residence		FI	
Mailing Address of Inventor:					
Address 1	Kaksoiskiventie 7-9 A1				
Address 2					
City	FI-02760 Espo	State/Province			
Postal Code	FI	Country	FI		
All Inventors Must Be Listed - Additional Inventor Information blocks may be generated within this form by selecting the Add button.					Add

Correspondence Information:

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

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	290.1078CON
		Application Number	
Title of invention	METHOD AND SYSTEM FOR SENDING A MESSAGE THROUGH A SECURE CONNECTION		
Enter either Customer Number or complete the Correspondence Information section below. For further information see 37 CFR 1.33(a).			
<input type="checkbox"/> An Address is being provided for the correspondence information of this application.			
Customer Number	33369		
Email Address	sloan.smith@fastlaw.com	<input type="button" value="Add Email"/>	<input type="button" value="Remove Email"/>

Application Information:

Title of the Invention	METHOD AND SYSTEM FOR SENDING A MESSAGE THROUGH A SECURE CONNECTION		
Attorney Docket Number	290.1078CON	Small Entity Status Claimed	<input type="checkbox"/>
Application Type	Nonprovisional		
Subject Matter	Utility		
Suggested Class (if any)		Sub Class (if any)	
Suggested Technology Center (if any)			
Total Number of Drawing Sheets (if any)	2	Suggested Figure for Publication (if any)	

Publication Information:

<input type="checkbox"/> Request Early Publication (Fee required at time of Request 37 CFR 1.219)
<input type="checkbox"/> 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:	<input checked="" type="radio"/> Customer Number	<input type="radio"/> US Patent Practitioner	<input type="radio"/> Limited Recognition (37 CFR 11.9)
Customer Number	33369		

Domestic Benefit/National Stage Information:

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

Prior Application Status	Pending	<input type="button" value="Remove"/>
--------------------------	---------	---------------------------------------

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	290.1078CCN
		Application Number	
Title of invention	METHOD AND SYSTEM FOR SENDING A MESSAGE THROUGH A SECURE CONNECTION		
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)
	Continuation of	10500930	2005-10-19
Prior Application Status	<input type="button" value="Remove"/>		
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)
<u>10500930</u>	<u>a 371 of international</u>	<u>PCT/FI03/00945</u>	<u>2003-01-21</u>
Additional Domestic Benefit/National Stage Data may be generated within this form by selecting the Add button.			

Foreign Priority Information:

This section allows for the applicant to claim benefit of foreign priority and to identify any prior foreign application for which priority is not claimed. 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(a).

<input type="button" value="Remove"/>			
Application Number	Country ¹	Filing Date (YYYY-MM-DD)	Priority Claimed
<u>20020112</u>	<u>EU</u>	<u>2002-01-22</u>	<input checked="" type="radio"/> Yes <input type="radio"/> No
Additional Foreign Priority Data may be generated within this form by selecting the Add button.			

Authorization to Permit Access:

Authorization to Permit Access to the Instant Application by the Participating Offices

If checked, the undersigned hereby grants the USPTO authority to provide the European Patent Office (EPO), the Japan Patent Office (JPO), the Korean Intellectual Property Office (KIPO), the World Intellectual Property Office (WIPO), and any other intellectual property offices in which a foreign application claiming priority to the instant patent application is filed access to the instant patent application. See 37 CFR 1.14(c) and (h). This box should not be checked if the applicant does not wish the EPO, JPO, KIPO, WIPO, or other intellectual property office in which a foreign application claiming priority to the instant patent application is filed to have access to the instant patent application.

In accordance with 37 CFR 1.14(h)(3), access will be provided to a copy of the instant patent application with respect to: 1) the instant patent application-as-filed; 2) any foreign application to which the instant patent application claims priority under 35 U.S.C. 119(a)-(d) if a copy of the foreign application that satisfies the certified copy requirement of 37 CFR 1.55 has been filed in the instant patent application, and 3) any U.S. application-as-filed from which benefit is sought in the instant patent application.

In accordance with 37 CFR 1.14(c), access may be provided to information concerning the date of filing this Authorization

Applicant Information:

Providing assignment information in this section does not substitute for compliance with any requirement of part 3 of Title 37 of CFR to have an assignment recorded by the Office.

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	290.1078CON
		Application Number	
Title of invention	METHOD AND SYSTEM FOR SENDING A MESSAGE THROUGH A SECURE CONNECTION		

Applicant 1

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 1.45 (assignee, person to whom the inventor is obligated to assign, or person who otherwise shows sufficient proprietary interest) together with one or more joint inventors, then the joint inventor or inventors who are also the applicant should be identified in this section.

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

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

Name of the Deceased or Legally Incapacitated Inventor: _____

If the Assignee is an Organization check here.

Prefix	Given Name	Middle Name	Family Name	Suffix

Mailing Address Information:

Address 1			
Address 2			
City		State/Province	
Country		Postal Code	
Phone Number		Fax Number	
Email Address			

Additional Applicant Data may be generated within this form by selecting the Add button.

Signature:

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

Signature		Date (YYYY-MM-DD)	
First Name	Last Name	Registration Number	

Additional Signature may be generated within this form by selecting the Add button.

Signature:

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

Signature	/r/fasth/	Date (YYYY-MM-DD)	2012-11-26
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Application Data Sheet 37 CFR 1.76		Attorney Docket Number	290 1078CON		
		Application Number			
Title of Invention	METHOD AND SYSTEM FOR SENDING A MESSAGE THROUGH A SECURE CONNECTION				
First Name	Rolf	Last Name	Fasih	Registration Number	36999
Additional Signature may be generated within this form by selecting the Add button					

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

COPY

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.

PETITION FOR REVIVAL OF AN APPLICATION FOR PATENT ABANDONED UNINTENTIONALLY UNDER 37 CFR 1.137(a)		Docket Number (Optional) 290.1078CON
Page 1 of 2		
First named inventor: Sami Vaarala		
Application No.: 13/685,544	Art Unit: 2469	
Filed: 26 November 2012	Examiner: Towfighi, Afshawn M	
Title:	METHOD AND SYSTEM FOR SENDING A MESSAGE THROUGH A SECURE CONNECTION	
Attention: Office of Patents Mail Stop Petition Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450 FAX (571) 273-8300		
NOTE: If information or assistance is needed in completing this form, please contact the Office of Patents at (571) 272-3282. The above-identified application became abandoned for failure to file a timely and proper reply to a notice or action by the United States Patent and Trademark Office. The date of abandonment is the day after the expiration date of the period set for reply in the Office notice or action plus any extensions of time actually obtained.		
APPLICANT HEREBY PETITIONS FOR REVIVAL OF THIS APPLICATION.		
NOTE: A grantable petition requires the following items: (1) Petition fee, (2) Reply and/or issue fee; (3) Terminal disclaimer with disclaimer fee – required for all utility and plant applications filed before June 8, 1995, and for all design applications, and (4) Statement that the entire delay was unintentional.		
1. Petition fee		
<input type="checkbox"/> Small entity fee \$ (37 CFR 1.17(m)). Applicant asserts small entity status. See 37 CFR 1.27.		
<input checked="" type="checkbox"/> Undiscounted fee \$ 1700 (37 CFR 1.17(m)).		
2. Reply and/or fee		
A The reply and/or fee to the above-noted Office notice or action in the form of Oath or Declaration of Inventors (Identify the type of reply):		
<input checked="" type="checkbox"/> has been filed previously on 18 September 2014		
<input type="checkbox"/> is enclosed herewith.		
B The issue fee and publication fee (if applicable) of \$ 960		
<input checked="" type="checkbox"/> has been paid previously on 6 January 2014		
<input type="checkbox"/> is enclosed herewith.		

This collection of information is required by 37 CFR 1.117(a). The information is required to obtain or retain a benefit by the public which is to be (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11, 1.14 and 41.6. This collection is estimated to take 1 hour to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. **DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop Petition, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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

Doc Code: PET.OP

Document Description: Petition for Review by the Office of Patents

COPY

PTO/SB/64 (12-13)

Approved for use through 07/12/2016. OMB 0651-0031

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

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

PETITION FOR REVIVAL OF AN APPLICATION FOR PATENT ABANDONED UNINTENTIONALLY UNDER 37 CFR 1.137(a)

Page 2 of 2

3. Terminal disclaimer with disclaimer fee

- Since this utility/plant application was filed on or after June 8, 1995, no terminal disclaimer is required.
- A terminal disclaimer (and disclaimer fee (37 CFR 1.20(a)) of \$ _____) disclaiming the required period of time is enclosed herewith (see PTO/SB/63).

4. STATEMENT: The entire delay in filing the required reply from the due date for the required reply until the filing of a grantable petition under 37 CFR 1.137(a) was unintentional. [NOTE: The United States Patent and Trademark Office may require additional information if there is a question as to whether either the abandonment or the delay in filing a petition under 37 CFR 1.137(a) was unintentional. (MPEP 711.03(c), subsections (III)(C) and (D)).]

WARNING:

Petitioner/applicant is cautioned to avoid submitting personal information in documents filed in a patent application that may contribute to identity theft. Personal information such as social security numbers, bank account numbers, or credit card numbers (other than a check or credit card authorization form PTO 2088 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.

/rfash/
Signature

26 February 2016
Date

Rolf Fasth
Typed or Printed Name

36999
Registration Number, if applicable

26 Pinecrest Plaza, Suite 2
Address

(910) 687-0001
Telephone Number

Southern Pines, NC 28387
Address

Enclosures:

- Fee Payment
- Reply
- Terminal Disclaimer Form
- Additional sheet(s) containing statements establishing unintentional delay
- Other: _____

CERTIFICATE OF MAILING OR TRANSMISSION [37 CFR 1.8(a)]

I hereby certify that this correspondence is being

- Deposited with the United States Postal Service on the date shown below with sufficient postage as first class mail in an envelope addressed to: Mail Stop Petition, Commissioner for Patents, P. O. Box 1450, Alexandria, VA 22313-1450.
- Transmitted by EFS Web or facsimile on the date shown below to the United States Patent and Trademark Office at (571) 273-8300.

26 February 2016
Date

/rfash/
Signature

Rolf Fasth
Typed or printed name of person signing certificate

PETITION FOR REVIVAL OF AN APPLICATION FOR PATENT ABANDONED UNINTENTIONALLY UNDER 37 CFR 1.137(a) Page 1 of 2	Docket Number (Optional) 290.1078CON
---	--

First named inventor: Sami Vaarala

Application No.: 13/685,544 Art Unit: 2469

Filed: 26 November 2012 Examiner: Towfighi, Afshawn M

Title: **METHOD AND SYSTEM FOR SENDING A MESSAGE THROUGH A SECURE CONNECTION**

Attention: Office of Petitions
Mail Stop Petition
 Commissioner for Patents
 P.O. Box 1450
 Alexandria, VA 22313-1450
 FAX (571) 273-8300

NOTE: If information or assistance is needed in completing this form, please contact the Office of Petitions at (571) 272-3282.

The above-identified application became abandoned for failure to file a timely and proper reply to a notice or action by the United States Patent and Trademark Office. The date of abandonment is the day after the expiration date of the period set for reply in the Office notice or action plus any extensions of time actually obtained.

APPLICANT HEREBY PETITIONS FOR REVIVAL OF THIS APPLICATION.

NOTE: A grantable petition requires the following items:

- (1) Petition fee;
- (2) Reply and/or issue fee;
- (3) Terminal disclaimer with disclaimer fee – required for all utility and plant applications filed before June 8, 1995, and for all design applications; and
- (4) Statement that the entire delay was unintentional.

1. Petition fee

- Small entity fee \$ _____ (37 CFR 1.17(m)). Applicant asserts small entity status. See 37 CFR 1.27.
- Undiscounted fee \$ 1700 (37.CFR.1.17(m)).

2. Reply and/or fee

- A The reply and/or fee to the above-noted Office notice or action in the form of Oath or Declaration of Inventors (identify the type of reply):
 - has been filed previously on 18 September 2014.
 - is enclosed herewith.
- B The issue fee and publication fee (if applicable) of \$ 960
 - has been paid previously on 6 January 2014.
 - is enclosed herewith.

This collection of information is required by 37 CFR 1.137(a). 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, 1.14 and 41.6. This collection is estimated to take 1 hour to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop Petition, 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.

**PETITION FOR REVIVAL OF AN APPLICATION FOR PATENT
ABANDONED UNINTENTIONALLY UNDER 37 CFR 1.137(a)**

Page 2 of 2

3. Terminal disclaimer with disclaimer fee

- Since this utility/plant application was filed on or after June 8, 1995, no terminal disclaimer is required.
- A terminal disclaimer (and disclaimer fee (37 CFR 1.20(d)) of \$ _____) disclaiming the required period of time is enclosed herewith (see PTO/SB/63).

4. STATEMENT: The entire delay in filing the required reply from the due date for the required reply until the filing of a grantable petition under 37 CFR 1.137(a) was unintentional. [NOTE: The United States Patent and Trademark Office may require additional information if there is a question as to whether either the abandonment or the delay in filing a petition under 37 CFR 1.137(a) was unintentional (MPEP 711.03(c), subsections (III)(C) and (D)).]

WARNING:

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

/rfasth/

Signature

Rolf Fasth

Typed or Printed Name

26 Pinecrest Plaza, Suite 2

Address

Southern Pines, NC 28387

Address

26 February 2016

Date

36999

Registration Number, if applicable

(910) 687-0001

Telephone Number

Enclosures:

- Fee Payment
- Reply
- Terminal Disclaimer Form
- Additional sheet(s) containing statements establishing unintentional delay
- Other: _____

CERTIFICATE OF MAILING OR TRANSMISSION [37 CFR 1.8(a)]

I hereby certify that this correspondence is being:

- Deposited with the United States Postal Service on the date shown below with sufficient postage as first class mail in an envelope addressed to: Mail Stop Petition, Commissioner for Patents, P. O. Box 1450, Alexandria, VA 22313-1450.
- Transmitted by EFS-Web or facsimile on the date shown below to the United States Patent and Trademark Office at (571) 273-8300.

26 February 2016

Date

/rfasth/

Signature

Rolf Fasth

Typed or printed name of person signing certificate

Privacy Act Statement

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

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

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

Electronic Patent Application Fee Transmittal

Application Number:	13685544			
Filing Date:	26-Nov-2012			
Title of Invention:	METHOD AND SYSTEM FOR SENDING A MESSAGE THROUGH A SECURE CONNECTION			
First Named Inventor/Applicant Name:	Sami Vaarala			
Filer:	Rolf Fasth/Sloan Smith			
Attorney Docket Number:	290.1078CON			
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:				
Pet. Revive Abandon App, Delay Pymt-Resp	1453	1	1700	1700
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 (\$)				1700

Electronic Acknowledgement Receipt

EFS ID:	25030195
Application Number:	13685544
International Application Number:	
Confirmation Number:	4882
Title of Invention:	METHOD AND SYSTEM FOR SENDING A MESSAGE THROUGH A SECURE CONNECTION
First Named Inventor/Applicant Name:	Sami Vaarala
Correspondence Address:	ROLF FASTH FASTH LAW OFFICES 26 PINECREST PLAZA, SUITE 2 - SOUTHERN PINES NC 28387-4301 US - -
Filer:	Rolf Fasth/Sloan Smith
Filer Authorized By:	Rolf Fasth
Attorney Docket Number:	290.1078CON
Receipt Date:	26-FEB-2016
Filing Date:	26-NOV-2012
Time Stamp:	10:49:09
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	Deposit Account
Payment was successfully received in RAM	\$1700

RAM confirmation Number	25601
Deposit Account	060243
Authorized User	SMITH, SLOAN

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

Charge any Additional Fees required under 37 CFR 1.16 (National application filing, search, and examination fees)

Charge any Additional Fees required under 37 CFR 1.17 (Patent application and reexamination processing fees)

Charge any Additional Fees required under 37 CFR 1.19 (Document supply fees)

Charge any Additional Fees required under 37 CFR 1.20 (Post Issuance fees)

Charge any Additional Fees required under 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	Petition for review by the Office of Petitions	PETITION_REVIVAL.pdf	1334439 a8eb08ed8123247373273ab4107457cbf91528ae	no	3

Warnings:

Information:

2	Fee Worksheet (SB06)	fee-info.pdf	30618 82c13ab4c7386a5cf3efa1a87a7cdbaf7df1b157	no	2
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Warnings:

Information:

Total Files Size (in bytes):	1365057
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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.

FEB 26 2016

Doc Code: PET.OP
Document Description: Petition for Review by the Office of Petitions

PTO/SB/64 (12-13)
Approved for use through 07/31/2016. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

PETITION FOR REVIVAL OF AN APPLICATION FOR PATENT
ABANDONED UNINTENTIONALLY UNDER 37 CFR 1.137(a)
Page 1 of 2
Docket Number (Optional)
290.1078CON
First named Inventor: Sami Vaarala
Application No.: 13/685,544 Art Unit: 2469
Filed: 26 November 2012 Examiner: Towfighi, Afshawn M
Title: METHOD AND SYSTEM FOR SENDING A MESSAGE THROUGH A SECURE CONNECTION
Attention: Office of Petitions
Mail Stop Petition
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450
FAX (571) 273-8300
NOTE: If information or assistance is needed in completing this form, please contact the Office of Petitions at (571) 272-3282.
The above-identified application became abandoned for failure to file a timely and proper reply to a notice or action by the United States Patent and Trademark Office. The date of abandonment is the day after the expiration date of the period set for reply in the Office notice or action plus any extensions of time actually obtained.
APPLICANT HEREBY PETITIONS FOR REVIVAL OF THIS APPLICATION.
NOTE: A grantable petition requires the following items:
(1) Petition fee;
(2) Reply and/or issue fee;
(3) Terminal disclaimer with disclaimer fee - required for all utility and plant applications filed before June 8, 1995, and for all design applications; and
(4) Statement that the entire delay was unintentional.
1. Petition fee
[] Small entity fee \$ (37 CFR 1.17(m)). Applicant asserts small entity status. See 37 CFR 1.27.
[X] Undiscounted fee \$ 1700 (37.CFR.1.17(m)).
2. Reply and/or fee
A The reply and/or fee to the above-noted Office notice or action in the form of
Oath or Declaration of Inventors (identify the type of reply):
[X] has been filed previously on 18 September 2014
[] is enclosed herewith.
B The issue fee and publication fee (if applicable) of \$ 960
[X] has been paid previously on 6 January 2014
[] is enclosed herewith.

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

Doc Code: PET.OP

Document Description: Petition for Review by the Office of Petitions

PTO/SB/64 (12-13)

Approved for use through 07/31/2016. OMB 0651-0031

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

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PETITION FOR REVIVAL OF AN APPLICATION FOR PATENT
ABANDONED UNINTENTIONALLY UNDER 37 CFR 1.137(a)

Page 2 of 2

3. Terminal disclaimer with disclaimer fee

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4. STATEMENT: The entire delay in filing the required reply from the due date for the required reply until the filing of a grantable petition under 37 CFR 1.137(a) was unintentional. [NOTE: The United States Patent and Trademark Office may require additional information if there is a question as to whether either the abandonment or the delay in filing a petition under 37 CFR 1.137(a) was unintentional (MPEP 711.03(c), subsections (III)(C) and (D)).]

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/rfasth/
Signature

26 February 2016
Date

Rolf Fasth
Typed or Printed Name

36999
Registration Number, if applicable

26 Pinecrest Plaza, Suite 2
Address

(910) 687-0001
Telephone Number

Southern Pines, NC 28387
Address

Enclosures:

- Fee Payment
- Reply
- Terminal Disclaimer Form
- Additional sheet(s) containing statements establishing unintentional delay
- Other: _____

CERTIFICATE OF MAILING OR TRANSMISSION [37 CFR 1.8(a)]

I hereby certify that this correspondence is being:

- Deposited with the United States Postal Service on the date shown below with sufficient postage as first class mail in an envelope addressed to: Mail Stop Petition, Commissioner for Patents, P. O. Box 1450, Alexandria, VA 22313-1450.
- Transmitted by EFS-Web or facsimile on the date shown below to the United States Patent and Trademark Office at (571) 273-8300.

26 February 2016
Date

/rfasth/
Signature

Rolf Fasth
Typed or printed name of person signing certificate

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FEB 26 2016

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571-273-8300

Certificate of Transmission under 37 CFR 1.8

I hereby certify that this correspondence is being facsimile transmitted to the United States Patent and Trademark Office

on 26 Feb. 2016
Date

Prof Fasth

Signature

ROUF FASTH

Typed or printed name of person signing Certificate

36999

Registration Number, if applicable

910-687-0001

Telephone Number

Note: Each paper must have its own certificate of transmission, or this certificate must identify each submitted paper.

PAGE 1 OF 5

EFS ACKNOWLEDGEMENT RECEIPT - 2 PAGES

PETITION FOR REVIVAL - 2 PAGES

This collection of information is required by 37 CFR 1.8. 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 1.8 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.

FEB 26 2016

Electronic Acknowledgement Receipt	
EFS ID:	25030195
Application Number:	13685544
International Application Number:	
Confirmation Number:	4882
Title of Invention:	METHOD AND SYSTEM FOR SENDING A MESSAGE THROUGH A SECURE CONNECTION
First Named Inventor/Applicant Name:	Sami Vaarala
Correspondence Address:	ROLF FASTH FASTH LAW OFFICES 26 PINECREST PLAZA, SUITE 2 - SOUTHERN PINES NC 28387-4301 US - -
Filer:	Rolf Fasth/Sloan Smith
Filer Authorized By:	Rolf Fasth
Attorney Docket Number:	290.1078CON
Receipt Date:	26-FEB-2016
Filing Date:	26-NOV-2012
Time Stamp:	10:49:09
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	Deposit Account
Payment was successfully received in RAM	\$1700

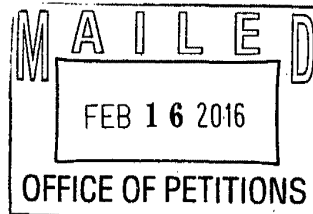
RAM confirmation Number		25601			
Deposit Account		060243			
Authorized User		SMITH, SLOAN			
<p>The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:</p> <ul style="list-style-type: none"> Charge any Additional Fees required under 37 CFR 1.16 (National application filing, search, and examination fees) Charge any Additional Fees required under 37 CFR 1.17 (Patent application and reexamination processing fees) Charge any Additional Fees required under 37 CFR 1.19 (Document supply fees) Charge any Additional Fees required under 37 CFR 1.20 (Post Issuance fees) Charge any Additional Fees required under 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	Petition for review by the Office of Petitions	PETITION_REVIVAL.pdf	1334439 <small>ad6c00e0db123247373273ab4107497c091528ac</small>	no	3
Warnings:					
Information:					
2	Fee Worksheet (SB06)	fee-info.pdf	30618 <small>62r11q9M4c73865C3e1a1ae7a7c7fhd7df1b157</small>	no	2
Warnings:					
Information:					
Total Files Size (in bytes):			1365057		
<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>					



UNITED STATES PATENT AND TRADEMARK OFFICE

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

ROLF FASTH
FASTH LAW OFFICES
26 PINECREST PLAZA SUITE 2
SOUTHERN PINES NC 28387-4301



In re Application of :
Vaarala, et al. :
Application No. 13/685,544 : ON PETITION
Filed: November 26, 2012 :
Attorney Docket No. 290.1078CON :

This is a decision on the petition under 37 CFR 1.181 to withdraw the holding of abandonment, filed September 18, 2014.

The petition under 37 CFR 1.181 is DISMISSED.

Any request for reconsideration of this decision must be submitted within **TWO (2) MONTHS** from the mail date of this decision. The reconsideration request should include a cover letter entitled "Renewed Petition under 37 CFR 1.181". Extensions of time under 37 CFR 1.136(a) are permitted. No fee is required for a renewed petition.

The above-identified application became abandoned for failure to file an oath or declaration no later than payment of the issue fee. Applicants paid the issue fee on January 6, 2014 (in response to an October 21, 2013 Notice of Allowance). No oath or declaration having been filed on or before that date, the application became abandoned on January 7, 2014. The Office mailed a Notice of Abandonment on August 7, 2014.

Petitioner argues that he did not receive a corrected Notice of Allowance, mailed April 1, 2014. However, as set forth above, the application became abandoned by operation of law prior to the mailing of the corrected Notice of Allowance.

For the reasons set forth above, the holding of abandonment was proper and will not be withdrawn.

Applicants may wish to consider reviving the abandoned application under 37 CFR 1.137(a). A grantable petition pursuant to 37 CFR 1.137(a) must be accompanied by (1) The reply required to the outstanding Office action or notice, unless previously filed; (2) The petition fee as set forth in 37 CFR 1.17(m); and (3) A statement that the entire delay in filing the required reply from the due date for the reply until the filing of a grantable petition pursuant to this paragraph was unintentional.

Further correspondence with respect to this matter should be addressed as follows:

By mail: Mail Stop Petitions
 Commissioner for Patents
 P.O. Box 1450
 Alexandria VA 22313-1450

By FAX: (571) 273-8300
 Attn: Office of Petitions

Telephone inquiries related to this decision should be directed to the undersigned at (571)272-3207.

/Cliff Congo/

Cliff Congo
Attorney Advisor
Office of Petitions

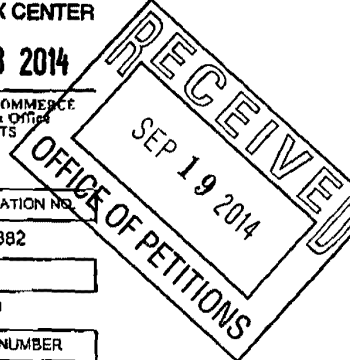


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SEP 18 2014

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.
13/685,544	11/26/2012	Sami Vaarala	290.1078CON	4892
	7590 08/07/2014		EXAMINER TOWFIGH, AFSHAWN M	
			ART UNIT 2469	PAPER NUMBER
			MAIL DATE 09/07/2014	DELIVERY MODE PAPER

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SOUTHERN PINES, NC 28387-4301

Notice of Abandonment

This application is abandoned in view of:

1. The applicant's failure to timely file a proper reply to the Office letter mailed on _____
 - (a) A reply was received on _____ (with a Certificate of Mailing or Transmission date _____), which is after the expiration of the period for reply (including a total extension of _____ month(s)) which expired on _____.
 - (b) No reply has been received.
2. Applicant's failure to timely pay the required issue fee and publication fee, if applicable, within the statutory period of three months from the mailing date of the Notice of Allowance (PTOL-85).
 - (a) The issue fee and publication fee, if applicable, was received on _____ (with a Certificate of Mailing or Transmission date _____), which is after the expiration of the statutory period for payment of the issue fee (and publication fee) set in the Notice of Allowance (PTOL-85).
 - (b) The submitted fee of \$ _____ is insufficient. A balance of \$ _____ is due.
The issue fee required by 37 CFR 1.18 is \$ _____.
The publication fee, if required by 37 CFR 1.18(d), is \$ _____.
 - (c) The issue fee and publication fee, if applicable, has not been received.
3. Applicant's failure to timely file corrected drawings as required by, and within the three-month period set in, the Notice of Allowability (PTO-37).
 - (a) Proposed corrected drawings were received on _____ (with a Certificate of Mailing or Transmission dated _____), which is after the expiration of the period for reply.
 - (b) No corrected drawing have been received.
4. Applicant's failure to timely file the inventor's oath or declaration no later than the date on which the issue fee was paid as required by the Notice Requiring Inventor's Oath or Declaration (PTO-2306).
 - (a) An inventor's oath or declaration was received on _____ (with a Certificate of Mailing or Transmission date _____), which is after the date on which the issue fee was paid.
 - (b) While an oath or declaration (or substitute statement) for one or more inventors was received, an oath or declaration (or substitute statement) for at least one other inventor has not been received.
 - (c) No inventor's oath or declaration has been received.
5. Drawings received on _____ were disapproved by examiner. See examiner's response dated _____.
6. Corrected drawings were received on _____, which is after the expiration of the one-month period for reply set in examiner's response dated _____.
7. No corrected drawings have been received in reply to one-month period set in examiner's response dated _____.
8. The reason(s) below:

Petitions to revive under 37 CFR 1.137(a) or (b), or request to withdraw the holding of abandonment under 37 CFR 1.181, should be promptly filed to minimize any negative effects on patent term.

RAA
(571)-272-4200 or 1(888)-786-0101
Patent Publication Branch
Office of Data Management
FORM PTO-ABND (Rev. 09/03)

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SEP 18 2014

Attorney Ref. 290.1078CON

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of

Art Unit 2469

Sami Vaarala, Antti Nuopponen

Serial No. 13/685,544

Filed: 26 November 2012

For: METHOD AND SYSTEM FOR
SENDING A MESSAGE
THROUGH A SECURE
CONNECTION

Examiner: Towfighi, Afshawn M

Date: 18 September 2014

CERTIFICATE OF TRANSMISSION

I HEREBY CERTIFY THAT THIS PAPER AND THE DOCUMENTS
REFERRED TO AS BEING ATTACHED OR ENCLOSED HERewith
ARE BEING TRANSMITTED VIA FACSIMILE TO THE
COMMISSIONER FOR PATENTS, OFFICE OF PETITIONS, 571-
273-8300, ON 18 September 2014.

/rfaoth/
Rolf Fasth
Attorney for Applicant

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PETITION TO WITHDRAW HOLDING OF ABANDONMENT BASED ON FAILURE TO
RECEIVE OFFICE ACTION (MPEP 711.03(c) AND 27 CFR 1.181). NO FEE
REQUIRED

TO THE COMMISSIONER FOR PATENTS:

The entire delay in filing the required reply from the due date for the reply until the filing of a grantable petition pursuant to 37 1.137(b) was unintentional. Applicant contends that the Corrected Notice of Allowance and Fees(s) Due was never received. A search of the file and docket records indicates that the Office communication was not received. A copy of the docket record where the nonreceived Office communication would have been entered had it been received and docketed is attached hereto (Exhibit A). Applicant notes that the attached docket record shows the due date for responding to the original Notice of Allowance and Fee(s) Due (see Exhibit A, item 1), but not the due date for responding to the Corrected Notice of Allowance and Fee(s) Due. Applicant paid the Issue Fee on 6 January 2014 (Exhibit B). Applicant submits concurrently herewith an Inventor's Oath or Declaration in response to the nonreceived

Attorney Ref. 290.1078CON

PATENT

Corrected Notice of Allowance and Fee(s) Due. It is requested that the Holding of Abandonment be Withdrawn Based on Applicant's Failure to Receive the Corrected Notice.

Respectfully submitted,
FASTH LAW OFFICES

/rfasth/
Rolf Fasth
Registration No. 36,999

FASTH LAW OFFICES
26 Pinecrest Plaza, Suite 2
Southern Pines, NC 28387-4301
Telephone: 910-687-0001
Facsimile: 910-295-2152

Attorney Ref. 290.1078CON

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PAGE 06/16
SEP 19 2014
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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

**CORRECTED
NOTICE OF ALLOWANCE AND FEE(S) DUE**

7590 04/01/2014
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SOUTHERN PINES, NC 28387-4301

EXAMINER
TOWFIGHI, AFSHAWN M

ART UNIT PAPER NUMBER
2469

DATE MAILED: 04/01/2014

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
13/685,544	11/26/2012	Sami Vazara	290.1078CON	4882

TITLE OF INVENTION: METHOD AND SYSTEM FOR SENDING A MESSAGE THROUGH A SECURE CONNECTION

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	UNDISCOUNTED	\$0	\$0	\$960	\$0	07/01/2014

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: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

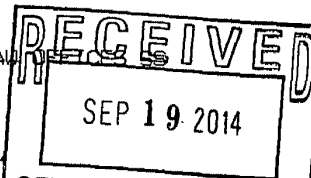
Best Available Copy

09/11/2014 01:02

919-942-6482

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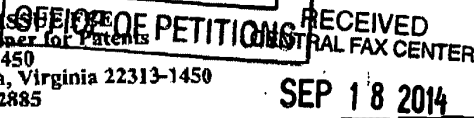
PAGE 07/16



PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail

Mail Stop 1500
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450
or Fax (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 (Now: Use Block 1 for any change of address)

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

7590 04/01/2014
ROLF FASTH
FASTH LAW OFFICES
26 PINECREST PLAZA, SUITE 2
SOUTHERN PINES, NC 28387-4301

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

Form with fields for (Depositor's name), (Signature), and (Date)

Table with columns: APPLICATION NO., FILING DATE, FIRST NAMED INVENTOR, ATTORNEY DOCKET NO., CONFIRMATION NO.

TITLE OF INVENTION: METHOD AND SYSTEM FOR SENDING A MESSAGE THROUGH A SECURE CONNECTION

Table with columns: APPLN. TYPE, ENTITY STATUS, ISSUE FEE DUE, PUBLICATION FEE DUE, PREV. PAID ISSUE FEE, TOTAL FEE(S) DUE, DATE DUE

Table with columns: EXAMINER, ART UNIT, CLASS-SUBCLASS

Form with sections 1 and 2 regarding correspondence address and printing on patent front page.

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

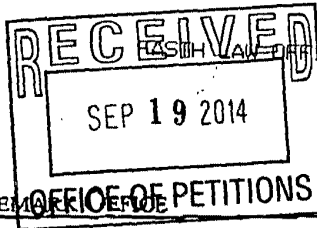
Please check the appropriate assignee category or categories (will not be printed on the patent):

Sections 4a and 4b: Fee(s) submitted and Payment of Fee(s)

Section 5: Change in Entity Status (from status indicated above)

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.

Signature and Date fields



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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
13/685,544	11/26/2012	Sami Vaanala	290.1078CON	4882
	7590 04/01/2014		EXAMINER	
			TOWFIGH, AP SHAWN M	
			ART UNIT	PAPER NUMBER
			2469	

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SOUTHERN PINES, NC 28387-4301

DATE MAILED: 04/01/2014

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

The Patent Term Adjustment to date is 0 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 0 day(s).

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 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).

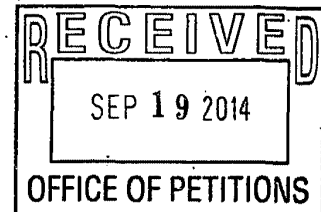
The information collected by PTOL-85 Part B is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, 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.



Letter Withdrawing the Notice of Allowance and Fee(s) Due

This application is being withdrawn from issue because an inventor's oath or declaration, executed by or with respect to each inventor, in compliance with 35 U.S.C. § 115 and 37 CFR 1.63 or 1.64 has not been submitted. While the claims remain allowed and prosecution on the merits remains closed, the Notice of Allowance and Fee(s) Due is hereby withdrawn. The Notice of Allowability is not being withdrawn. As a result, any time period set forth in the Notice of Allowability continues to run from the mailing date of the Notice of Allowability.

Oath/Declaration:

An inventor's oath or declaration in compliance with 35 U.S.C. § 115 and 37 CFR 1.63 or 1.64, executed by or with respect to each inventor **MUST** be filed **no later than the date on which the issue fee is paid**. See 35 U.S.C. 115(f). In this instance, a compliant inventor's oath or declaration must be submitted before, or at the time, the signed part B of the attached "Notice of Allowance and Fee(s) Due" (PTOL-85) is returned (see below). Failure to timely comply will result in **ABANDONMENT** of this application. To ensure compliance with 35 U.S.C. § 115 and 37 CFR 1.63 or 1.64, the Office suggests using the appropriate USPTO form(s) available on the USPTO Web site (e.g., PTO/AIA/01 for a declaration under 37 CFR 1.63 or PTO/AIA/02 for a substitute statement under 37 CFR 1.64).

An inventor's oath or declaration in compliance with 35 U.S.C. § 115 and 37 CFR 1.63 or 1.64 must include the following (in addition to meeting the other requirements of 35 U.S.C. § 115 and 37 CFR 1.63 or 1.64):

- (1) a statement that the application was made or was authorized to be made by the affiant or declarant;
- (2) a statement that such individual believes himself or herself to be the original inventor or an original joint inventor of a claimed invention in the application; and
- (3) an acknowledgment that any willful false statement made in such declaration or statement is punishable under section 1001 of title 18 by fine or imprisonment of not more than 5 years, or both.

Reapplication of Issue Fee and Publication Fee:

A new Notice of Allowance and Fee(s) Due is being issued herewith. The issue fee and any required publication fee set forth in the new Notice of Allowance and Fee(s) Due, including any fee adjustment since the fees were previously paid, must be paid within three months from the mailing date of the new Notice of Allowance and Fee(s) Due. Since fees were previously paid, applicant may request that the previously submitted issue fee and publication fee be applied toward payment of the issue fee and publication fee in the amount identified on the new Notice of Allowance and Fee(s) Due. The return of part B of the new Notice of Allowance and Fee(s) Due will be considered a request to apply any previously submitted issue fee and publication fee toward the issue fee and any publication fee now due. Failure to timely comply will result in **ABANDONMENT** of this application. **This three-month time period is not extendable under 37 CFR 1.136(a).**

Diane Terry
Application Assistance Unit
531 323 4200

Exhibit A

Filters Used: 6 Tagged Records	ToDo Report Custom List Format	Date Printed: 8/29/2014 Time Printed: 10:01AM Printed By: TM
-----------------------------------	--	--

Date	Done	Staff	Description	Client	MatterNo
12/04/2012	Tue	Y	Sloan Smith	Research decl, asn, email RF	290.1078CON
3/28/2013	Tue	Y	Sloan Smith	OFR? (11/26/12)	290.1078CON
11/26/2013	Tue	Y	Sloan Smith	QA? (11/26/12)	290.1078CON
12/04/2013	Wed	Y	Sloan Smith	Rec'd notice of acceptance of PoA and updated OFR? (11	290.1078CON
1/21/2014	Tue	Y	Rolf Fasth	ABS/DL Pay issue fee	290.1078CON
8/06/2014	Wed	N	Sloan Smith	Rec'd letters patent?	Lisbeth Soderman - BORENIUS & CO OY / 290.1078CON

→ Item 1

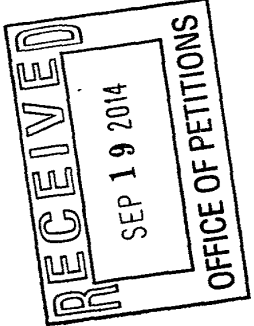


Exhibit B 1 of 2

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Electronic Acknowledgement Receipt	
EFS ID:	17825208
Application Number:	13685544
International Application Number:	
Confirmation Number:	4892
Title of Invention:	METHOD AND SYSTEM FOR SENDING A MESSAGE THROUGH A SECURE CONNECTION
First Named Inventor/Applicant Name:	Sami Vaarala
Correspondence Address:	Rolf Fasth FASTH LAW OFFICES 26 Pinecrest Plaza, Suite 2 - Southern Pines NC 28387-4301 US -
Filer:	Rolf Fasth/Sloan Smith
Filer Authorized By:	Rolf Fasth
Attorney Docket Number:	290.1078CON
Receipt Date:	06-JAN-2014
Filing Date:	26-NOV-2012
Time Stamp:	14:01:33
Application Type:	Utility under 35 USC 111(a)

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Payment information:	
Submitted with Payment	yes
Payment Type	Deposit Account
Payment was successfully received in RAM	\$960

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Exhibit B Lot 2

SEP 18 2014

RAM confirmation Number		278			
Deposit Account		060243			
Authorized User					
<p>The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:</p> <p>Charge any Additional Fees required under 37 C.F.R. Section 1.16 (National application filing, search, and examination fees)</p> <p>Charge any Additional Fees required under 37 C.F.R. Section 1.17 (Patent application and reexamination processing fees)</p> <p>Charge any Additional Fees required under 37 C.F.R. Section 1.19 (Document supply fees)</p> <p>Charge any Additional Fees required under 37 C.F.R. Section 1.20 (Post Issuance fees)</p> <p>Charge any Additional Fees required under 37 C.F.R. Section 1.21 (Miscellaneous fees and charges)</p>					
File Listing:					
Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /zip	Pages (if appl.)
1	Miscellaneous Incoming Letter	TRX.pdf	59736 <small>7a79485b1441138c2281157e6f1207042294b</small>	no	1
Warnings:					
Information:					
2	Issue Fee Payment (PTO-85B)	PART_B.pdf	2191742 <small>4b4ad41d79e5ccdf0144011904b1d203641d3dc</small>	no	2
Warnings:					
Information:					
3	Fee Worksheet (SB06)	fee-info.pdf	32073 <small>10413a71d0a4d39f000949e3035bd017f09dc</small>	no	2
Warnings:					
Information:					
Total Files Size (in bytes):			2283551		
<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>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.</p> <p>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.</p> <p>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.</p>					

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RF 9/15/14 290.1678CON

COMBINED DECLARATION AND POWER OF ATTORNEY
FOR PATENT APPLICATION

As a below named inventor, I hereby declare that:

The below-identified application was made or was authorized to be made by me. I believe I am the original and first inventor or an original joint and first inventor of the subject matter which is claimed and for which a patent is sought on the invention entitled METHOD AND SYSTEM FOR SENDING A MESSAGE THROUGH A SECURE CONNECTION, the specification of which is attached hereto.

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

The undersigned hereby authorizes Rolf Fasth, the U.S. attorney named herein, to accept and follow instructions from Boco IP Oy Ab as to any action to be taken in the Patent and Trademark Office regarding this application without direct communication between Rolf Fasth and the undersigned. In the event of a change in the persons from whom instructions may be taken, Rolf Fasth will be so notified by the undersigned.

As a named inventor, I hereby appoint Rolf Fasth, Registration No. 36,999, to prosecute this application, to file a corresponding international application, and to transact all business in the Patent and Trademark Office connected therewith.

Address all telephone calls to Rolf Fasth at telephone number (910) 687-0001; fax number (910) 295-2152.

Address all correspondence to:

Rolf Fasth
FASTH LAW OFFICES
26 Pinecrest Plaza, Suite 2
Southern Pines, NC 28387-4301

I hereby declare and acknowledge 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

DECLARATION - PAGE 1 OF 2

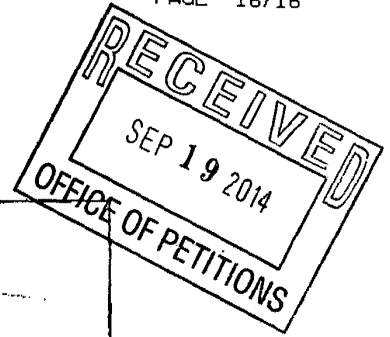
Handwritten initials/signature

RE 9/15/14 290.1078CDN

thereon.

DECLARATION - PAGE 2 OF 13
[Handwritten signature]

RF 9/15/14 200.107BCON



Legal name of first joint inventor: Sami Vaarala
 Inventor's signature [Signature]
 Date Sep 15, 2014
 Residence: Helsinki, Finland
 Citizenship: Finland
 Post Office address: LEPPÄVAARANWATU 13A4
02600 ESPOO, FINLAND
~~HELJAS-LINJA 22A~~
~~FIN-00503 Helsinki, Finland~~

Legal name of second joint inventor: Antti Nuopponen
 Inventor's signature [Signature]
 Date Sep 18, 2014
 Residence: Espoo, Finland
 Citizenship: Finland
 Post Office address: Kaksoiskiventie 7-9 A1
 FIN-02760 Espoo, Finland

DECLARATION - PAGE 3 OF 3
[Signature]

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PTO/SB/97 (07-09)
Approved for use through 07/31/2012, OMB 0851-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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

Attn: Art Unit 2469

Certificate of Transmission under 37 CFR 1.8

571-273-8300

I hereby certify that this correspondence is being facsimile transmitted to the United States Patent and Trademark Office

on 18 September 2014
Date

Rolf Fasth

Signature

Rolf Fasth

Typed or printed name of person signing Certificate

36,999

910-687-0001

Registration Number, if applicable

Telephone Number

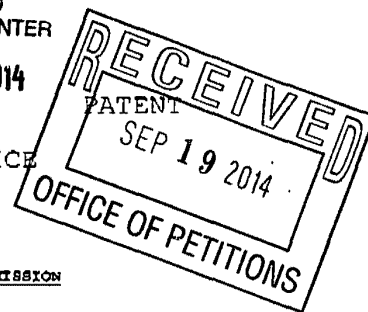
- (X) Transmittal Letter (1 page)
 - (X) Copy of Notice of Abandonment dated 7 August 2014 (1 pg)
 - (X) PETITION TO WITHDRAW HOLDING OF ABANDONMENT (2 pages)
 - (X) Copy of nonreceived Corrected Notice of Allowance and Fee(s) Due (5 pages)
 - (X) Copy of the docket record (Exhibit A) (1 page)
 - (X) Issue Fee Payment Confirmation Receipt (Exhibit B) (2 pages)
 - (X) Signed Inventor's Oath or Declaration (3 pages)
- 15 Total pages + fax certificate of transmission

This collection of information is required by 37 CFR 1.8. 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 1.8 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.

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Attorney Ref. 290.1078CON

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE
In re application of Art Unit 2469

Sami Vaarala, Antti Nuopponen

Serial No. 13/685,544

Filed: 26 November 2012

For: METHOD AND SYSTEM FOR
SENDING A MESSAGE
THROUGH A SECURE
CONNECTION

CERTIFICATE OF TRANSMISSION

I HEREBY CERTIFY THAT THIS PAPER AND THE DOCUMENTS
REFERRED TO AS BEING ATTACHED OR ENCLOSED HERewith
ARE BEING TRANSMITTED VIA FACSIMILE TO THE
COMMISSIONER FOR PATENTS, OFFICE OF PETITIONS, 571-
273-8300, ON 18 September 2014.

/rfasth/
Rolf Fasth
Attorney for Applicant

Examiner: Towfighi, Afshawn M

Date: 18 September 2014

TRANSMITTAL LETTER

TO THE COMMISSIONER FOR PATENTS:
MAIL STOP PETITON

Enclosed for filing in the above-referenced application are the
following:

- (X) Copy of Notice of Abandonment dated 7 August 2014
- (X) PETITION TO WITHDRAW HOLDING OF ABANDONMENT
- (X) Copy of nonreceived Corrected Notice of Allowance and Fee(s)
Due
- (X) Copy of the docket record (Exhibit A)
- (X) Issue Fee Payment Confirmation Receipt (Exhibit B)
- (X) Signed Inventor's Oath or Declaration
- (X) The Commissioner is hereby authorized to charge any fees which
may be required in connection with the filing of this
petition and any documents enclosed herewith, or credit
over-payment, to Account No. 06-0243.

Respectfully submitted,
FASTH LAW OFFICES

/rfasth/
Rolf Fasth
Registration No. 36,999

FASTH LAW OFFICES
26 Pinecrest Plaza, Suite 2
Southern Pines, NC 28387-4301
Telephone: 910-687-0001
Facsimile: 910-295-2152

Attorney Ref. 290.1078CON

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
13/685,544	11/26/2012	Saml Vaarela	290,1078CON	4882
	7590 08/07/2014		EXAMINER	
			TOW/FIHL, AFSHAWN M	
			ART UNIT	PAPER NUMBER
			2469	
			MAIL DATE	DELIVERY MODE
			08/07/2014	PAPER

ROLF FASTH
FASTH LAW OFFICES
26 PINECREST PLAZA, SUITE 2
SOUTHERN PINES, NC 28387-4301

Notice of Abandonment

This application is abandoned in view of:

- The applicant's failure to timely file a proper reply to the Office letter mailed on _____
 - A reply was received on _____ (with a Certificate of Mailing or Transmission date _____), which is after the expiration of the period for reply (including a total extension of _____ month(s)) which expired on _____.
 - No reply has been received.
- Applicant's failure to timely pay the required issue fee and publication fee, if applicable, within the statutory period of three months from the mailing date of the Notice of Allowance (PTOL-85).
 - The issue fee and publication fee, if applicable, was received on _____ (with a Certificate of Mailing or Transmission date _____), which is after the expiration of the statutory period for payment of the issue fee (and publication fee) set in the Notice of Allowance (PTOL-85).
 - The submitted fee of \$_____ is insufficient. A balance of \$_____ is due.
The issue fee required by 37 CFR 1.18 is \$_____.
The publication fee, if required by 37 CFR 1.18(d), is \$_____.
 - The issue fee and publication fee, if applicable, has not been received.
- Applicant's failure to timely file corrected drawings as required by, and within the three-month period set in, the Notice of Allowability (PTO-37).
 - Proposed corrected drawings were received on _____ (with a Certificate of Mailing or Transmission dated _____), which is after the expiration of the period for reply.
 - No corrected drawing have been received.
- Applicant's failure to timely file the inventor's oath or declaration no later than the date on which the issue fee was paid as required by the Notice Requiring Inventor's Oath or Declaration (PTO-2306).
 - An inventor's oath or declaration was received on _____ (with a Certificate of Mailing or Transmission date _____), which is after the date on which the issue fee was paid.
 - While an oath or declaration (or substitute statement) for one or more inventors was received, an oath or declaration (or substitute statement) for at least one other inventor has not been received.
 - No inventor's oath or declaration has been received.
- Drawings received on _____, were disapproved by examiner. See examiner's response dated _____.
- Corrected drawings were received on _____, which is after the expiration of the one-month period for reply set in examiner's response dated _____.
- No corrected drawings have been received in reply to one-month period set in examiner's response dated _____.
- The reason(s) below:

Petitions to revive under 37 CFR 1.137(a) or (b), or request to withdraw the holding of abandonment under 37 CFR 1.181, should be promptly filed to minimize any negative effects on patent term.

R. A. S.
(571)-272-4200 or 1(888)-786-0101
Patent Publication Branch
Office of Data Management
FORM PTO-ABND (Rev. 08/05)

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Attorney Ref. 290.1078CON

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of

Art Unit 2469

Sami Vaarala, Antti Nuopponen

Serial No. 13/685,544

CERTIFICATE OF TRANSMISSION

Filed: 26 November 2012

I HEREBY CERTIFY THAT THIS PAPER AND THE DOCUMENTS REFERRED TO AS BEING ATTACHED OR ENCLOSED HERewith ARE BEING TRANSMITTED VIA FACSIMILE TO THE COMMISSIONER FOR PATENTS, OFFICE OF PETITIONS, 571-273-8300, ON 18 September 2014.

For: METHOD AND SYSTEM FOR
SENDING A MESSAGE
THROUGH A SECURE
CONNECTION

/rfasth/
Rolf Fasth
Attorney for Applicant

Examiner: Towfighi, Afshawn M

Date: 18 September 2014

PETITION TO WITHDRAW HOLDING OF ABANDONMENT BASED ON FAILURE TO RECEIVE OFFICE ACTION (MPEP 711.03(c) AND 27 CFR 1.181). NO FEE REQUIRED

TO THE COMMISSIONER FOR PATENTS:

The entire delay in filing the required reply from the due date for the reply until the filing of a grantable petition pursuant to 37 1.137(b) was unintentional. Applicant contends that the Corrected Notice of Allowance and Fees(s) Due was never received. A search of the file and docket records indicates that the Office communication was not received. A copy of the docket record where the nonreceived Office communication would have been entered had it been received and docketed is attached hereto (Exhibit A). Applicant notes that the attached docket record shows the due date for responding to the original Notice of Allowance and Fee(s) Due (see Exhibit A, item 1), but not the due date for responding to the Corrected Notice of Allowance and Fee(s) Due. Applicant paid the Issue Fee on 6 January 2014 (Exhibit B). Applicant submits concurrently herewith an Inventor's Oath or Declaration in response to the nonreceived

Attorney Ref. 290.1078CON

PATENT

Corrected Notice of Allowance and Fee(s) Due. It is requested that the Holding of Abandonment be Withdrawn Based on Applicant's Failure to Receive the Corrected Notice.

Respectfully submitted,
FASTH LAW OFFICES

/rfasth/
Rolf Fasth
Registration No. 36,999

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26 Pinecrest Plaza, Suite 2
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Attorney Ref. 290.1078CON

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**CORRECTED
NOTICE OF ALLOWANCE AND FEE(S) DUE**

7590 04/01/2014
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SOUTHERN PINES, NC 28387-4301

EXAMINER
TOWFIGHI, AFSHA WN M

ART UNIT PAPER NUMBER
2469

DATE MAILED: 04/01/2014

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
13/685,544	11/26/2012	Sami Vaarala	290.1078CON	4882

TITLE OF INVENTION: METHOD AND SYSTEM FOR SENDING A MESSAGE THROUGH A SECURE CONNECTION

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	UNDISCOUNTED	\$0	\$0	\$960	\$0	07/01/2014

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: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

Best Available Copy

09/11/2014 00:54 919-942-6482

FASTH LAW OFFICES SS



PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Stop ISSUE FEE, Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450 or Fax (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)

7590 09/01/2014
ROLF FASTH
FASTH LAW OFFICES
26 PINECREST PLAZA, SUITE 2
SOUTHERN PINES, NC 28387-4301

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

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

Table with 3 rows: Depositor's name, Signature, Date

Table with 5 columns: APPLICATION NO., FILING DATE, FIRST NAMED INVENTOR, ATTORNEY DOCKET NO., CONFIRMATION NO.

TITLE OF INVENTION: METHOD AND SYSTEM FOR SENDING A MESSAGE THROUGH A SECURE CONNECTION

Table with 7 columns: APPLN. TYPE, ENTITY STATUS, ISSUE FEE DUE, PUBLICATION FEE DUE, PREV. PAID ISSUE FEE, TOTAL FEE(S) DUE, DATE DUE

Table with 3 columns: EXAMINER, ART UNIT, CLASS-SUBCLASS

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

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 has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment. (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. The following fee(s) are submitted: Issue Fee, Publication Fee, Advance Order. 4b. Payment of Fee(s): A check is enclosed, Payment by credit card, The Director is hereby authorized to charge the required fee(s), any deficiency, or credits any overpayment, to Deposit Account Number.

5. Change in Entity Status (from status indicated above) Applicant certifying micro entity status, Applicant asserting small entity status, 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: This form must be signed in accordance with 37 CFR 1.31 and 1.33. See 37 CFR 1.4 for signature requirements and certifications.

Authorized Signature, Date, Typed or printed name, Registration No.

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

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
13/685,544	11/26/2012	Semi Vaarela	290.1078CON	4882

7590 04/01/2014
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FASTH LAW OFFICES
26 PINECREST PLAZA, SUITE 2
SOUTHERN PINES, NC 28387-4301

EXAMINER

TOWFIGHI, AP SHAWN M

ART UNIT PAPER NUMBER

2469

DATE MAILED: 04/01/2014

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

The Patent Term Adjustment to date is 0 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 0 day(s).

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 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 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, 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.



Letter Withdrawing the Notice of Allowance and Fee(s) Due

This application is being withdrawn from issue because an inventor's oath or declaration, executed by or with respect to each inventor, in compliance with 35 U.S.C. § 115 and 37 CFR 1.63 or 1.64 has not been submitted. While the claims remain allowed and prosecution on the merits remains closed, the Notice of Allowance and Fee(s) Due is hereby withdrawn. The Notice of Allowability is not being withdrawn. As a result, any time period set forth in the Notice of Allowability continues to run from the mailing date of the Notice of Allowability.

Oath/Declaration:

An inventor's oath or declaration in compliance with 35 U.S.C. § 115 and 37 CFR 1.63 or 1.64, executed by or with respect to each inventor **MUST** be filed **no later than the date on which the issue fee is paid**. See 35 U.S.C. 115(f). In this instance, a compliant inventor's oath or declaration must be submitted before, or at the time, the signed part B of the attached "Notice of Allowance and Fee(s) Due" (PTOL-85) is returned (see below). Failure to timely comply will result in **ABANDONMENT** of this application. To ensure compliance with 35 U.S.C. § 115 and 37 CFR 1.63 or 1.64, the Office suggests using the appropriate USPTO form(s) available on the USPTO Web site (e.g., PTO/AIA/01 for a declaration under 37 CFR 1.63 or PTO/AIA/02 for a substitute statement under 37 CFR 1.64).

An inventor's oath or declaration in compliance with 35 U.S.C. § 115 and 37 CFR 1.63 or 1.64 must include the following (in addition to meeting the other requirements of 35 U.S.C. § 115 and 37 CFR 1.63 or 1.64):

- (1) a statement that the application was made or was authorized to be made by the affiant or declarant;
- (2) a statement that such individual believes himself or herself to be the original inventor or an original joint inventor of a claimed invention in the application; and
- (3) an acknowledgment that any willful false statement made in such declaration or statement is punishable under section 1001 of title 18 by fine or imprisonment of not more than 5 years, or both.

Reapplication of Issue Fee and Publication Fee:

A new Notice of Allowance and Fee(s) Due is being issued herewith. The issue fee and any required publication fee set forth in the new Notice of Allowance and Fee(s) Due, including any fee adjustment since the fees were previously paid, must be paid within three months from the mailing date of the new Notice of Allowance and Fee(s) Due. Since fees were previously paid, applicant may request that the previously submitted issue fee and publication fee be applied toward payment of the issue fee and publication fee in the amount identified on the new Notice of Allowance and Fee(s) Due. The return of part B of the new Notice of Allowance and Fee(s) Due will be considered a request to apply any previously submitted issue fee and publication fee toward the issue fee and any publication fee now due. Failure to timely comply will result in **ABANDONMENT** of this application. This three-month time period is not extendable under 37 CFR 1.136(a).

Diane Terry
Application Assistance Unit
571-272-4200

Exhibit A

Filters Used:
6 Tagged Records

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Date	Done	Staff	Description	Client	MatterNo
12/04/2012	Tue	Y	Sloan Smith	Research decl, asn, email RF	290.1078CON
3/26/2013	Tue	Y	Sloan Smith	OFR? (11/26/12)	290.1078CON
11/26/2013	Tue	Y	Sloan Smith	OA? (11/26/12)	290.1078CON
12/04/2013	Wed	Y	Sloan Smith	Rec'd notice of acceptance of PoA and updated OFR? (11	290.1078CON
1/21/2014	Tue	Y	Rolf Fasth	ABS/DL Pay issue fee	290.1078CON
8/06/2014	Wed	N	Sloan Smith	Rec'd letters patent?	Lisbeth Soderman - BORENIUS & CO OY / 290.1078CON

Item 1

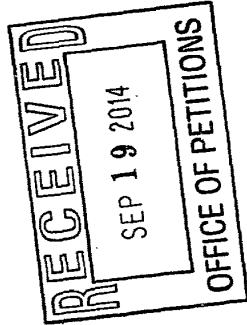


Exhibit B 1 of 2

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Electronic Acknowledgement Receipt		SEP 18 2014
EFS ID:	17825208	
Application Number:	13685544	
International Application Number:		
Confirmation Number:	4882	
Title of Invention:	METHOD AND SYSTEM FOR SENDING A MESSAGE THROUGH A SECURE CONNECTION	
First Named Inventor/Applicant Name:	Sami Vaarala	
Correspondence Address:	Rolf Fasth FASTH LAW OFFICES 26 Pinecrest Plaza, Suite 2 - Southern Pines NC 28387-4301 US	
Filer:	Rolf Fasth/Sloan Smith	
Filer Authorized By:	Rolf Fasth	
Attorney Docket Number:	290.1078CON	
Receipt Date:	06-JAN-2014	
Filing Date:	26-NOV-2012	
Time Stamp:	14:01:33	
Application Type:	Utility under 35 USC 111(a)	

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Payment information:

Submitted with Payment	yes
Payment Type	Deposit Account
Payment was successfully received in RAM	\$960

Exhibit B Lot 2

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SEP 18 2014

RAM confirmation Number	278				
Deposit Account	060243				
Authorized User					
The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:					
Charge any Additional Fees required under 37 C.F.R. Section 1.16 (National application filing, search, and examination fees)					
Charge any Additional Fees required under 37 C.F.R. Section 1.17 (Patent application and reexamination processing fees)					
Charge any Additional Fees required under 37 C.F.R. Section 1.19 (Document supply fees)					
Charge any Additional Fees required under 37 C.F.R. Section 1.20 (Post Issuance fees)					
Charge any Additional Fees required under 37 C.F.R. Section 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	Miscellaneous Incoming Letter	TRX.pdf	59736 <small>78107823bb1f7e4119522782127040412870425974b</small>	no	1
Warnings:					
Information:					
2	Issue Fee Payment (PTO-85B)	PART_B.pdf	2191742 <small>4d3b620420e5c7e196124d51a0047b1075611810e</small>	no	2
Warnings:					
Information:					
3	Fee Worksheet (S306)	fee-info.pdf	32073 <small>f7e1124710e044c376c482702613e4712f00bc</small>	no	2
Warnings:					
Information:					
Total Files Size (in bytes):			2283551		
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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SEP 18 2014

RF 9/15/14 290.1078CON

COMBINED DECLARATION AND POWER OF ATTORNEY
FOR PATENT APPLICATION

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As a below named inventor, I hereby declare that:

The below-identified application was made or was authorized to be made by me. I believe I am the original and first inventor or an original joint and first inventor of the subject matter which is claimed and for which a patent is sought on the invention entitled METHOD AND SYSTEM FOR SENDING A MESSAGE THROUGH A SECURE CONNECTION, the specification of which is attached hereto.

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

The undersigned hereby authorizes Rolf Fasth, the U.S. attorney named herein, to accept and follow instructions from Boco IP Oy Ab as to any action to be taken in the Patent and Trademark Office regarding this application without direct communication between Rolf Fasth and the undersigned. In the event of a change in the persons from whom instructions may be taken, Rolf Fasth will be so notified by the undersigned.

As a named inventor, I hereby appoint Rolf Fasth, Registration No. 36,999, to prosecute this application, to file a corresponding international application, and to transact all business in the Patent and Trademark Office connected therewith.

Address all telephone calls to Rolf Fasth at telephone number (910) 687-0001; fax number (910) 295-2152.


Address all correspondence to:

Rolf Fasth
FASTH LAW OFFICES
26 Pinecrest Plaza, Suite 2
Southern Pines, NC 28387-4301

I hereby declare and acknowledge 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

DECLARATION - PAGE 1 OF 2

RE 9/15/14 290.1878CDM
thereon.

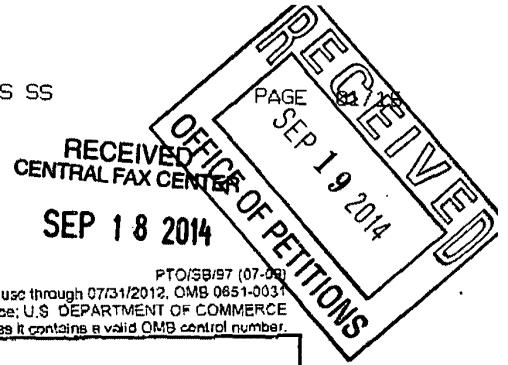
DECLARATION - PAGE 2 OF 3


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09/11/2014 01:02

919-942-6482

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PTO/SB/97 (07-09)

Approved for use through 07/31/2012, OMB 0851-0031

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

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

Attn: Art Unit 2469

Certificate of Transmission under 37 CFR 1.8

571-273-8300

I hereby certify that this correspondence is being facsimile transmitted to the United States Patent and Trademark Office

on 18 September 2014
Date

Signature

Rolf Fasth

Typed or printed name of person signing Certificate

36,999

910-687-0001

Registration Number, if applicable

Telephone Number

- (X) Transmittal Letter (1 page)
 - (X) Copy of Notice of Abandonment dated 7 August 2014 (1 pg)
 - (X) PETITION TO WITHDRAW HOLDING OF ABANDONMENT (2 pages)
 - (X) Copy of nonreceived Corrected Notice of Allowance and Fee(s) Due (5 pages)
 - (X) Copy of the docket record (Exhibit A) (1 page)
 - (X) Issue Fee Payment Confirmation Receipt (Exhibit B) (2 pages)
 - (X) Signed Inventor's Oath or Declaration (3 pages)
- 15 Total pages + fax certificate of transmission

This collection of information is required by 37 CFR 1.8. 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 1.8 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.

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SEP 18 2014

PATENT

Attorney Ref. 290.1078CON

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE
In re application of **Art Unit 2469**

Sami Vaarala, Antti Nuopponen

Serial No. 13/685,544

Filed: 26 November 2012

For: METHOD AND SYSTEM FOR
SENDING A MESSAGE
THROUGH A SECURE
CONNECTION

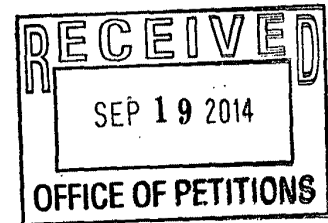
Examiner: Towfighi, Afshawn M

Date: 18 September 2014

CERTIFICATE OF TRANSMISSION

I HEREBY CERTIFY THAT THIS PAPER AND THE DOCUMENTS
REFERRED TO AS BEING ATTACHED OR ENCLOSED HERewith
ARE BEING TRANSMITTED VIA FACSIMILE TO THE
COMMISSIONER FOR PATENTS, OFFICE OF PETITIONS, 571-
273-9300, ON 18 September 2014.

/rFasth/
Rolf Fasth
Attorney for Applicant



TRANSMITTAL LETTER

TO THE COMMISSIONER FOR PATENTS:
MAIL STOP PETITON

Enclosed for filing in the above-referenced application are the
following:

- (X) Copy of Notice of Abandonment dated 7 August 2014
- (X) PETITION TO WITHDRAW HOLDING OF ABANDONMENT
- (X) Copy of nonreceived Corrected Notice of Allowance and Fee(s)
Due
- (X) Copy of the docket record (Exhibit A)
- (X) Issue Fee Payment Confirmation Receipt (Exhibit B)
- (X) Signed Inventor's Oath or Declaration
- (X) The Commissioner is hereby authorized to charge any fees which
may be required in connection with the filing of this
petition and any documents enclosed herewith, or credit
over-payment, to Account No. 06-0243.

Respectfully submitted,
FASTH LAW OFFICES

/rfasth/
Rolf Fasth
Registration No. 36,999

FASTH LAW OFFICES
26 Pinecrest Plaza, Suite 2
Southern Pines, NC 28387-4301
Telephone: 910-687-0001
Facsimile: 910-295-2152

Attorney Ref. 290.1078CON



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

Table with 5 columns: APPLICATION NO., FILING DATE, FIRST NAMED INVENTOR, ATTORNEY DOCKET NO., CONFIRMATION NO.
Row 1: 13/685,544, 11/26/2012, Sami Vaarala, 290.1078CON, 4882
Row 2: 7590, 08/07/2014, EXAMINER TOWFIGHI, AFSHAWN M
Row 3: ART UNIT 2469, PAPER NUMBER
Row 4: MAIL DATE 08/07/2014, DELIVERY MODE PAPER

ROLF FASTH
FASTH LAW OFFICES
26 PINECREST PLAZA, SUITE 2
SOUTHERN PINES, NC 28387-4301

Notice of Abandonment

This application is abandoned in view of:

- 1. [] The applicant's failure to timely file a proper reply to the Office letter mailed on _____.
(a) [] A reply was received on _____ (with a Certificate of Mailing or Transmission date _____), which is after the expiration of the period for reply (including a total extension of ____ month(s)) which expired on _____.
(b) [] No reply has been received.
2. [x] Applicant's failure to timely pay the required issue fee and publication fee, if applicable, within the statutory period of three months from the mailing date of the Notice of Allowance (PTOL-85).
(a) [] The issue fee and publication fee, if applicable, was received on _____ (with a Certificate of Mailing or Transmission date _____), which is after the expiration of the statutory period for payment of the issue fee (and publication fee) set in the Notice of Allowance (PTOL-85).
(b) [] The submitted fee of \$_____ is insufficient. A balance of \$_____ is due.
The issue fee required by 37 CFR 1.18 is \$_____.
The publication fee, if required by 37 CFR 1.18(d), is \$_____.
(c) [x] The issue fee and publication fee, if applicable, has not been received.
3. [] Applicant's failure to timely file corrected drawings as required by, and within the three-month period set in, the Notice of Allowability (PTO-37).
(a) [] Proposed corrected drawings were received on _____ (with a Certificate of Mailing or Transmission dated _____), which is after the expiration of the period for reply.
(b) [] No corrected drawing have been received.
4. [x] Applicant's failure to timely file the inventor's oath or declaration no later than the date on which the issue fee was paid as required by the Notice Requiring Inventor's Oath or Declaration (PTO-2306).
(a) [] An inventor's oath or declaration was received on _____ (with a Certificate of Mailing or Transmission date _____), which is after the date on which the issue fee was paid.
(b) [] While an oath or declaration (or substitute statement) for one or more inventors was received, an oath or declaration (or substitute statement) for at least one other inventor has not been received.
(c) [x] No inventor's oath or declaration has been received.
5. [] Drawings received on _____ were disapproved by examiner. See examiner's response dated _____.
6. [] Corrected drawings were received on _____, which is after the expiration of the one-month period for reply set in examiner's response dated _____.
7. [] No corrected drawings have been received in reply to one-month period set in examiner's response dated _____.
8. [] The reason(s) below:

Petitions to revive under 37 CFR 1.137(a) or (b), or request to withdraw the holding of abandonment under 37 CFR 1.181, should be promptly filed to minimize any negative effects on patent term.

PAAL 5
(571) 272-4200 or 1(888)-786-0101
Patent Publication Branch
Office of Data Management



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
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CORRECTED
NOTICE OF ALLOWANCE AND FEE(S) DUE

7590 04/01/2014
ROLF FASTH
FASTH LAW OFFICES
26 PINECREST PLAZA, SUITE 2
SOUTHERN PINES, NC 28387-4301

EXAMINER

TOWFIGHI, AFSHAWN M

ART UNIT PAPER NUMBER

2469

DATE MAILED: 04/01/2014

Table with 5 columns: APPLICATION NO., FILING DATE, FIRST NAMED INVENTOR, ATTORNEY DOCKET NO., CONFIRMATION NO.
13/685,544 11/26/2012 Sami Vaarala 290.1078CON 4882

TITLE OF INVENTION: METHOD AND SYSTEM FOR SENDING A MESSAGE THROUGH A SECURE CONNECTION

Table with 7 columns: APPLN. TYPE, ENTITY STATUS, ISSUE FEE DUE, PUBLICATION FEE DUE, PREV. PAID ISSUE FEE, TOTAL FEE(S) DUE, DATE DUE
nonprovisional UNDISCOUNTED \$0 \$0 \$960 \$0 07/01/2014

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: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: **Mail** Mail Stop ISSUE FEE
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450
 or **Fax** (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)

7590 04/01/2014
ROLF FASTH
FASTH LAW OFFICES
26 PINECREST PLAZA, SUITE 2
SOUTHERN PINES, NC 28387-4301

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

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

(Depositor's name)
(Signature)
(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
13/685,544	11/26/2012	Sami Vaarala	290.1078CON	4882

TITLE OF INVENTION: METHOD AND SYSTEM FOR SENDING A MESSAGE THROUGH A SECURE CONNECTION

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	UNDISCOUNTED	\$0	\$0	\$960	\$0	07/01/2014

EXAMINER	ART UNIT	CLASS-SUBCLASS
TOWFIGHI, AFSHAWN M	2469	713-171000

<p>1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).</p> <p><input type="checkbox"/> Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.</p> <p><input type="checkbox"/> "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.</p>	<p>2. For printing on the patent front page, list</p> <p>(1) The names of up to 3 registered patent attorneys or agents OR, alternatively, _____ 1</p> <p>(2) The name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed. _____ 2</p> <p>_____ 3</p>
--	---

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 has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment.

(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

<p>4a. The following fee(s) are submitted:</p> <p><input type="checkbox"/> Issue Fee</p> <p><input type="checkbox"/> Publication Fee (No small entity discount permitted)</p> <p><input type="checkbox"/> Advance Order - # of Copies _____</p>	<p>4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above)</p> <p><input type="checkbox"/> A check is enclosed.</p> <p><input type="checkbox"/> Payment by credit card. Form PTO-2038 is attached.</p> <p><input type="checkbox"/> The Director is hereby authorized to charge the required fee(s), any deficiency, or credits any overpayment, to Deposit Account Number _____ (enclose an extra copy of this form).</p>
---	---

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 undiscouted fee status.

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

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

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

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

Authorized Signature _____ Date _____

Typed or printed name _____ Registration No. _____



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Table with 5 columns: APPLICATION NO., FILING DATE, FIRST NAMED INVENTOR, ATTORNEY DOCKET NO., CONFIRMATION NO.

ROLF FASTH
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SOUTHERN PINES, NC 28387-4301

EXAMINER

TOWFIGHI, AFSHAWN M

ART UNIT PAPER NUMBER

2469

DATE MAILED: 04/01/2014

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

The Patent Term Adjustment to date is 0 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 0 day(s).

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 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 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, 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.

Letter Withdrawing the Notice of Allowance and Fee(s) Due

This application is being withdrawn from issue because an inventor's oath or declaration, executed by or with respect to each inventor, in compliance with 35 U.S.C. § 115 and 37 CFR 1.63 or 1.64 has not been submitted. While the claims remain allowed and prosecution on the merits remains closed, the Notice of Allowance and Fee(s) Due is hereby withdrawn. The Notice of Allowability is not being withdrawn. As a result, any time period set forth in the Notice of Allowability continues to run from the mailing date of the Notice of Allowability.

Oath/Declaration:

An inventor's oath or declaration in compliance with 35 U.S.C. § 115 and 37 CFR 1.63 or 1.64, executed by or with respect to each inventor **MUST** be filed **no later than the date on which the issue fee is paid**. See 35 U.S.C. 115(f). In this instance, a compliant inventor's oath or declaration must be submitted before, or at the time, the signed part B of the attached "Notice of Allowance and Fee(s) Due" (PTOL-85) is returned (see below). Failure to timely comply will result in ABANDONMENT of this application. To ensure compliance with 35 U.S.C. § 115 and 37 CFR 1.63 or 1.64, the Office suggests using the appropriate USPTO form(s) available on the USPTO Web site (e.g., PTO/AIA/01 for a declaration under 37 CFR 1.63 or PTO/AIA/02 for a substitute statement under 37 CFR 1.64).

An inventor's oath or declaration in compliance with 35 U.S.C. § 115 and 37 CFR 1.63 or 1.64 must include the following (in addition to meeting the other requirements of 35 U.S.C. § 115 and 37 CFR 1.63 or 1.64):

- (1) a statement that the application was made or was authorized to be made by the affiant or declarant;
- (2) a statement that such individual believes himself or herself to be the original inventor or an original joint inventor of a claimed invention in the application; and
- (3) an acknowledgment that any willful false statement made in such declaration or statement is punishable under section 1001 of title 18 by fine or imprisonment of not more than 5 years, or both.

Reapplication of Issue Fee and Publication Fee:

A new Notice of Allowance and Fee(s) Due is being issued herewith. The issue fee and any required publication fee set forth in the new Notice of Allowance and Fee(s) Due, including any fee adjustment since the fees were previously paid, must be paid within three months from the mailing date of the new Notice of Allowance and Fee(s) Due. Since fees were previously paid, applicant may request that the previously submitted issue fee and publication fee be applied toward payment of the issue fee and publication fee in the amount identified on the new Notice of Allowance and Fee(s) Due. The return of part B of the new Notice of Allowance and Fee(s) Due will be considered a request to apply any previously submitted issue fee and publication fee toward the issue fee and any publication fee now due. Failure to timely comply will result in ABANDONMENT of this application. **This three-month time period is not extendable under 37 CFR 1.136(a).**

Diane Terry
Application Assistance Unit
571-272-4200

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: **Mail Stop ISSUE FEE
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450**
or **Fax (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)

3369 7590 10/21/2013
FASTH LAW OFFICES (ROLF FASTH)
26 PINECREST PLAZA, SUITE 2
SOUTHERN PINES, NC 28387-4301

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

Certificate of Mailing or Transmission

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

<i>Sloan Smith</i>	(Depositor's name)
<i>Sloan Smith</i>	(Signature)
<i>10 January 2014</i>	(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
13/685,544	11/26/2012	Sami Vaarala	290.1078CON	4882

TITLE OF INVENTION: METHOD AND SYSTEM FOR SENDING A MESSAGE THROUGH A SECURE CONNECTION

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUR FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	UNDISCOUNTED	\$1700 \$980	\$300 \$0	\$0	\$2000 \$980	01/23/2014
EXAMINER		ART UNIT	CLASS-SUBCLASS			
TOWFIGHL A/SHAWN M		2469	713-171000			

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363). <input type="checkbox"/> Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. <input type="checkbox"/> "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.	2. For printing on the patent front page, list (1) the names of up to 3 registered patent attorneys or agents OR, alternatively, (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.	1. <i>FASTH LAW OFFICES</i> 2. <i>Rolf Fasth</i> 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 has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE

MPH Technologies Oy

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

Espoo, Finland

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

4a. The following fee(s) are submitted:

- Issue Fee
 Publication Fee (No small entity discount permitted)
 Advance Order - # of Copies _____

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

- A check is enclosed.
 Payment by credit card. Form PTO-2038 is attached.
 The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number *200143* (enclose an extra copy of this form).

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

- Applicant certifying micro entity status. See 37 CFR 1.29
- Applicant asserting small entity status. See 37 CFR 1.27
- Applicant changing to regular undiscounted fee status.

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

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

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

NOTE: The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office.

Authorized Signature /rfasth/ Date 6 January 2014

Typed or printed name Rolf Fasth Registration No. 36,999

This collection of information 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 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, 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.

Electronic Patent Application Fee Transmittal

Application Number:	13685544			
Filing Date:	26-Nov-2012			
Title of Invention:	METHOD AND SYSTEM FOR SENDING A MESSAGE THROUGH A SECURE CONNECTION			
First Named Inventor/Applicant Name:	Sami Vaarala			
Filer:	Rolf Fasth/Sloan Smith			
Attorney Docket Number:	290.1078CON			
Filed as Large Entity				
Utility under 35 USC 111(a) Filing Fees				
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	960	960
Publ. Fee- Early, Voluntary, or Normal	1504	1	0	0

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Extension-of-Time:				
Miscellaneous:				
Total in USD (\$)				960

Electronic Acknowledgement Receipt

EFS ID:	17825208
Application Number:	13685544
International Application Number:	
Confirmation Number:	4882
Title of Invention:	METHOD AND SYSTEM FOR SENDING A MESSAGE THROUGH A SECURE CONNECTION
First Named Inventor/Applicant Name:	Sami Vaarala
Correspondence Address:	Rolf Fasth FASTH LAW OFFICES 26 Pinecrest Plaza, Suite 2 - Southern Pines NC 28387-4301 US - -
Filer:	Rolf Fasth/Sloan Smith
Filer Authorized By:	Rolf Fasth
Attorney Docket Number:	290.1078CON
Receipt Date:	06-JAN-2014
Filing Date:	26-NOV-2012
Time Stamp:	14:01:33
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	Deposit Account
Payment was successfully received in RAM	\$ 960

RAM confirmation Number	278
Deposit Account	060243
Authorized User	

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

- Charge any Additional Fees required under 37 C.F.R. Section 1.16 (National application filing, search, and examination fees)
- Charge any Additional Fees required under 37 C.F.R. Section 1.17 (Patent application and reexamination processing fees)
- Charge any Additional Fees required under 37 C.F.R. Section 1.19 (Document supply fees)
- Charge any Additional Fees required under 37 C.F.R. Section 1.20 (Post Issuance fees)
- Charge any Additional Fees required under 37 C.F.R. Section 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	Miscellaneous Incoming Letter	TRX.pdf	59736 7a78fd5bb1ee4539527621367e0412d70425974b	no	1

Warnings:

Information:

2	Issue Fee Payment (PTO-85B)	PART_B.pdf	2191742 4d8a60400be5ccd801946b1a994fb1d056a1d3de	no	2
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Warnings:

Information:

3	Fee Worksheet (SB06)	fee-info.pdf	32073 5bd134710e848c397cce8b9309a3bcbf12f488bc	no	2
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Warnings:

Information:

Total Files Size (in bytes):	2283551
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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.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of

Sami Vaarala, Antti Nuopponen

Art Unit 2469
Confirmation No. 4882

Serial No. 13/685,544

CERTIFICATE OF MAILING

Filed: 26 November 2012

I HEREBY CERTIFY THAT THIS PAPER AND THE DOCUMENTS REFERRED TO AS BEING ATTACHED OR ENCLOSED HERewith ARE BEING SUBMITTED ELECTRONICALLY TO THE UNITED STATES PATENT AND TRADEMARK OFFICE ON **6 January 2014**.

For: METHOD AND SYSTEM FOR
SENDING A MESSAGE
THROUGH A SECURE
CONNECTION

/rfasth/

Examiner: Afshawn M. Towfighi

Rolf Fasth
Attorney for Applicant

Date: 6 January 2014

TRANSMITTAL LETTER

ELECTRONIC SUBMISSION

COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, VA 22313-1450

In connection with issuance of a patent, enclosed for filing in the above-referenced application are the following:

- (X) Form PTOL-85 (Part B - Fee Transmittal)
- (X) Issue Fee (\$960;) to be charged to Account No. 06-0243.
- (X) The Commissioner is hereby authorized to charge any additional fees which may be required in connection with the issuance of a patent or credit over-payment to Account No. 06-0243.

Respectfully submitted,

FASTH LAW OFFICES

/rfasth/

Rolf Fasth
Registration No. 36,999

FASTH LAW OFFICES
26 Pinecrest Plaza, Suite 2
Southern Pines, North Carolina 28387-4301

Telephone: 910-687-0001
Facsimile: 910-295-2152

Attorney Ref. No. 290.1078CON



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

Table with 7 columns: APPLICATION NUMBER, FILING or 371(c) DATE, GRP ART UNIT, FIL FEE REC'D, ATTY.DOCKET.NO, TOT CLAIMS, IND CLAIMS. Row 1: 13/685,544, 11/26/2012, 2469, 1710, 290.1078CON, 4, 1

CONFIRMATION NO. 4882

REPLACEMENT FILING RECEIPT

Rolf Fasth
FASTH LAW OFFICES
26 Pinecrest Plaza, Suite 2
Southern Pines, NC 28387-4301



0C000000065159417

Date Mailed: 11/25/2013

Receipt is acknowledged of this non-provisional 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 APPLICANT, 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 Filing Receipt Correction. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections 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

Inventor(s)

Sami Vaarala, Espoo, FINLAND;
Antti Nuopponen, Espoo, FINLAND;

Applicant(s)

MPH TECHNOLOGIES OY, Espoo, FINLAND

Assignment For Published Patent Application

MPH TECHNOLOGIES OY, Espoo, FINLAND

Power of Attorney:

Rolf Fasth--36999

Domestic Priority data as claimed by applicant

This application is a CON of 10/500,930 10/19/2005 PAT 8346949 *

(*)Data provided by applicant is not consistent with PTO records.

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

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

If Required, Foreign Filing License Granted: 12/17/2012

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is US 13/685,544

Projected Publication Date: Not Applicable

Non-Publication Request: No

Early Publication Request: No

Title

METHOD AND SYSTEM FOR SENDING A MESSAGE THROUGH A SECURE CONNECTION

Preliminary Class

713

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

PROTECTING YOUR INVENTION OUTSIDE THE UNITED STATES

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

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

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

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

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

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

GRANTED

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

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

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

NOT GRANTED

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

SelectUSA

The United States represents the largest, most dynamic marketplace in the world and is an unparalleled location for business investment, innovation, and commercialization of new technologies. The U.S. offers tremendous resources and advantages for those who invest and manufacture goods here. Through SelectUSA, our nation works to promote and facilitate business investment. SelectUSA provides information assistance to the international investor community; serves as an ombudsman for existing and potential investors; advocates on behalf of U.S. cities, states, and regions competing for global investment; and counsels U.S. economic development organizations on investment attraction best practices. To learn more about why the United States is the best country in the world to develop technology, manufacture products, deliver services, and grow your business, visit <http://www.SelectUSA.gov> or call +1-202-482-6800.



UNITED STATES PATENT AND TRADEMARK OFFICE

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

APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
13/685,544	11/26/2012	Sami Vaarala	290.1078CON

CONFIRMATION NO. 4882

POA ACCEPTANCE LETTER

Rolf Fasth
FASTH LAW OFFICES
26 Pinecrest Plaza, Suite 2
Southern Pines, NC 28387-4301



Date Mailed: 11/25/2013

NOTICE OF ACCEPTANCE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 11/21/2013.

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

/snguyen/

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

**POWER OF ATTORNEY BY APPLICANT
FOR PATENT APPLICATION**

I hereby revoke all previous powers of attorney given in the application identified in the attached transmittal letter. I am the applicant and the assignee to whom the inventors of the identified application are under an obligation to assign.


I hereby authorize Rolf Fasts, the U.S. attorney named herein, to accept and follow instructions from Hoco IP Oy Ab as to any action to be taken in the U.S. Patent and Trademark Office regarding this application without direct communication between Rolf Fasts and the undersigned. In the event of a change in the persons from whom instructions may be taken, Rolf Fasts will be so notified by the undersigned.

I hereby appoint Rolf Fasts, Registration No. 36,959, to prosecute this application, to file a corresponding International application, and to transact all business in the U.S. Patent and Trademark Office connected therewith.

Address all telephone calls to Rolf Fasts at telephone number (910) 687-0001; fax number (910) 295-2152.

Address all correspondence to:

ROLF FASTS
FASTS LAW OFFICES
26 Pinecrest Plaza, Suite 2
Southern Pines, NC 28387-4301

Date	<u>3/17/14</u>	<u>2014</u> , 2013
Signature		
Name:	<u>Rolf Fasts</u>	
Title and Company:	<u>CEO</u> , MFM Technologies Oy	

Electronic Acknowledgement Receipt

EFS ID:	17463855
Application Number:	13685544
International Application Number:	
Confirmation Number:	4882
Title of Invention:	METHOD AND SYSTEM FOR SENDING A MESSAGE THROUGH A SECURE CONNECTION
First Named Inventor/Applicant Name:	Sami Vaarala
Customer Number:	33369
Filer:	Rolf Fasth/Sloan Smith
Filer Authorized By:	Rolf Fasth
Attorney Docket Number:	290.1078CON
Receipt Date:	21-NOV-2013
Filing Date:	26-NOV-2012
Time Stamp:	11:38:12
Application Type:	Utility under 35 USC 111(a)

Payment information:

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

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Miscellaneous Incoming Letter	REQUEST_UPDATE_INFO.pdf	55299 <small>39f0a4b679a1578598ba43738c739998983c3ec</small>	no	1

Warnings:

Information:

2	Application Data Sheet	ADS.pdf	4947112 f16f5222676fe4e0a116138e3c4bac36223f25b3	no	5
Warnings:					
Information:					
This is not an USPTO supplied ADS fillable form					
3	Miscellaneous Incoming Letter	aia0096.pdf	118011 04ffb99584d3ce4b61dbf00aede8f67fa0d3b7e0	no	3
Warnings:					
Information:					
4	Power of Attorney	POA.pdf	720010 d1e06e76d5125247585bb56d3aee26028c760ab4	no	1
Warnings:					
Information:					
Total Files Size (in bytes):				5840432	
<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>					

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of

Sami Vaarala, Antti Nuopponen

Art Unit 2469
Confirmation No. 4882

Serial No. 13/685,544

CERTIFICATE OF MAILING

Filed: 26 November 2012

I HEREBY CERTIFY THAT THIS PAPER AND THE DOCUMENTS
REFERRED TO AS BEING ATTACHED OR ENCLOSED HERewith
ARE BEING SUBMITTED ELECTRONICALLY TO THE UNITED
STATES PATENT AND TRADEMARK OFFICE ON **21 November**
2013.For: METHOD AND SYSTEM FOR
SENDING A MESSAGE
THROUGH A SECURE
CONNECTION

/rfasth/

Examiner: Afshawn M. Towfighi

Rolf Fasth
Attorney for Applicant

Date: 21 November 2013

This is a request to update the applicant information in the above application. The applicant hereby states that all errors which are being corrected in the oath/declaration arose without any deceptive intention on the part of the applicant. Respectfully submitted with this request are the following: Updated ADS naming the applicant as the assignee; a copy of the Power of Attorney, and form AIA96.

Respectfully submitted,

FASTH LAW OFFICES

/rfasth/

Rolf Fasth
Registration No. 36,999

FASTH LAW OFFICES
26 Pinecrest Plaza, Suite 2
Southern Pines, North Carolina 28387-4301

Telephone: 910-687-0001
Facsimile: 910-295-2152

Attorney Ref. No. 290.1078CON

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	290.1078CON
		Application Number	
Title of Invention	METHOD AND SYSTEM FOR SENDING A MESSAGE THROUGH A SECURE CONNECTION		
The application data sheet is part of the provisional or nonprovisional application for which it is being submitted. The following form contains the bibliographic data arranged in a format specified by the United States Patent and Trademark Office as outlined in 37 CFR 1.76. This document may be completed electronically and submitted to the Office in electronic format using the Electronic Filing System (EFS) or the document may be printed and included in a paper filed application.			

Secrecy Order 37 CFR 5.2

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

Inventor Information:

Inventor 1					Remove
Legal Name					
Prefix	Given Name	Middle Name	Family Name	Suffix	
	Sami		Vaarala		
Residence Information (Select One) <input type="radio"/> US Residency <input checked="" type="radio"/> Non US Residency <input type="radio"/> Active US Military Service					
City	Espoo	Country of Residence	FI		
Mailing Address of Inventor:					
Address 1	Saterinrinne 8 B 37				
Address 2					
City	FI-02600 Espoo	State/Province			
Postal Code	FI	Country	FI		
Inventor 2					Remove
Legal Name					
Prefix	Given Name	Middle Name	Family Name	Suffix	
	Antti		Nuopponen		
Residence Information (Select One) <input type="radio"/> US Residency <input checked="" type="radio"/> Non US Residency <input type="radio"/> Active US Military Service					
City	Espoo	Country of Residence	FI		
Mailing Address of Inventor:					
Address 1	Kaksoiskiventie 7-9 A1				
Address 2					
City	FI-02760 Espo	State/Province			
Postal Code	FI	Country	FI		
All Inventors Must Be Listed - Additional Inventor Information blocks may be generated within this form by selecting the Add button.					Add

Correspondence Information:

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

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	290.1078CON
		Application Number	
Title of Invention	METHOD AND SYSTEM FOR SENDING A MESSAGE THROUGH A SECURE CONNECTION		
Enter either Customer Number or complete the Correspondence Information section below. For further information see 37 CFR 1.33(a).			
<input type="checkbox"/> An Address is being provided for the correspondence information of this application.			
Customer Number	33369		
Email Address	sloan.smith@fastlaw.com	<input type="button" value="Add Email"/>	<input type="button" value="Remove Email"/>

Application Information:

Title of the Invention	METHOD AND SYSTEM FOR SENDING A MESSAGE THROUGH A SECURE CONNECTION		
Attorney Docket Number	290.1078CON	Small Entity Status Claimed	<input type="checkbox"/>
Application Type	Nonprovisional		
Subject Matter	Utility		
Suggested Class (if any)		Sub Class (if any)	
Suggested Technology Center (if any)			
Total Number of Drawing Sheets (if any)	2	Suggested Figure for Publication (if any)	

Publication Information:

<input type="checkbox"/> Request Early Publication (Fee required at time of Request 37 CFR 1.219)
<input type="checkbox"/> 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:	<input checked="" type="radio"/> Customer Number	<input type="radio"/> US Patent Practitioner	<input type="radio"/> Limited Recognition (37 CFR 11.9)
Customer Number	33369		

Domestic Benefit/National Stage Information:

This section allows for the applicant to either claim benefit under 35 U.S.C. 119(e), 120, 121, or 365(c) or indicate National Stage entry from a PCT application. Providing this information in the application data sheet constitutes the specific reference required by 35 U.S.C. 119(e) or 120, and 37 CFR 1.78.		
Prior Application Status	Pending	<input type="button" value="Remove"/>

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	290.1078CON
		Application Number	
Title of Invention	METHOD AND SYSTEM FOR SENDING A MESSAGE THROUGH A SECURE CONNECTION		
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)
	Continuation of	10500930	2005-10-19
Additional Domestic Benefit/National Stage Data may be generated within this form by selecting the Add button.			

Foreign Priority Information:

This section allows for the applicant to claim benefit of foreign priority and to identify any prior foreign application for which priority is not claimed. 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(a).

Application Number	Country ¹	Filing Date (YYYY-MM-DD)	Priority Claimed
			<input type="radio"/> Yes <input checked="" type="radio"/> No

Additional Foreign Priority Data may be generated within this form by selecting the **Add** button.

Authorization to Permit Access:

Authorization to Permit Access to the instant Application by the Participating Offices

If checked, the undersigned hereby grants the USPTO authority to provide the European Patent Office (EPO), the Japan Patent Office (JPO), the Korean Intellectual Property Office (KIPO), the World Intellectual Property Office (WIPO), and any other intellectual property offices in which a foreign application claiming priority to the instant patent application is filed access to the instant patent application. See 37 CFR 1.14(c) and (h). This box should not be checked if the applicant does not wish the EPO, JPO, KIPO, WIPO, or other intellectual property office in which a foreign application claiming priority to the instant patent application is filed to have access to the instant patent application.

In accordance with 37 CFR 1.14(h)(3), access will be provided to a copy of the instant patent application with respect to: 1) the instant patent application-as-filed; 2) any foreign application to which the instant patent application claims priority under 35 U.S.C. 119(a)-(d) if a copy of the foreign application that satisfies the certified copy requirement of 37 CFR 1.55 has been filed in the instant patent application; and 3) any U.S. application-as-filed from which benefit is sought in the instant patent application.

In accordance with 37 CFR 1.14(c), access may be provided to information concerning the date of filing this Authorization.

Applicant Information:

Providing assignment information in this section does not substitute for compliance with any requirement of part 3 of Title 37 of CFR to have an assignment recorded by the Office.

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	290.1078CON
	Application Number	
Title of Invention	METHOD AND SYSTEM FOR SENDING A MESSAGE THROUGH A SECURE CONNECTION	

Applicant 1			
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.			
<input checked="" type="radio"/> Assignee		<input type="radio"/> Legal Representative under 35 U.S.C. 117	
<input type="radio"/> Person to whom the inventor is obligated to assign.		<input type="radio"/> 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: <input type="text"/>			
If the Assignee is an Organization check here. <input checked="" type="checkbox"/>			
Organization Name		<u>MPH TECHNOLOGIES OY</u>	
Mailing Address Information:			
Address 1		<u>Keilaranta 14</u>	
Address 2			
City		<u>FIN-02150 Espoo</u>	State/Province
Country	<u>FI</u>	Postal Code	
Phone Number		Fax Number	
Email Address			
Additional Applicant Data may be generated within this form by selecting the Add button.			

Signature:

NOTE: This form must be signed in accordance with 37 CFR 1.33. See 37 CFR 1.4 for signature requirements and certifications					
Signature		<u>/rfasth/</u>	Date (YYYY-MM-DD)	2013-11-21	
First Name	<u>Rolf</u>	Last Name	<u>Fasth</u>	Registration Number	36899
Additional Signature may be generated within this form by selecting the Add button.					

Signature:

NOTE: This form must be signed in accordance with 37 CFR 1.33. See 37 CFR 1.4 for signature requirements and certifications					
Signature		<u>/rfasth/</u>	Date (YYYY-MM-DD)	2013-11-21	
First Name	<u>Rolf</u>	Last Name	<u>Fasth</u>	Registration Number	36899

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	290.1078CON
		Application Number	
Title of Invention	METHOD AND SYSTEM FOR SENDING A MESSAGE THROUGH A SECURE CONNECTION		

Additional Signature may be generated within this form by selecting the Add button.

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

STATEMENT UNDER 37 CFR 3.73(c)

Applicant/Patent Owner: MPH TECHNOLOGIES OY
Application No./Patent No.: 13685544 Filed/Issue Date: 26 November 2012
Titled: METHOD AND SYSTEM FOR SENDING A MESSAGE THROUGH A SECURE CONNECTION
MPH Technologies OY, a corporation
(Name of Assignee) (Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

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

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

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

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

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

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

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

- A. An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office at Reel 031250, Frame 0063, or for which a copy thereof is attached.
- B. A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as follows:

1. From: _____ To: _____

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

2. From: _____ To: _____

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

[Page 1 of 2]

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

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

STATEMENT UNDER 37 CFR 3.73(c)

3. From: _____ To: _____

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

4. From: _____ To: _____

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

5. From: _____ To: _____

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

6. From: _____ To: _____

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

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

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

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

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

/rfasth/

Signature

Rolf Fasth

Printed or Typed Name

21 November 2013

Date

36999

Title or Registration Number

Privacy Act Statement

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

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

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



UNITED STATES PATENT AND TRADEMARK OFFICE

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

APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
13/685,544	11/26/2012	Sami Vaarala	290.1078CON

CONFIRMATION NO. 4882

IMPROPER CFR REQUEST

33369
FASTH LAW OFFICES (ROLF FASTH)
26 PINECREST PLAZA, SUITE 2
SOUTHERN PINES, NC 28387-4301



Date Mailed: 11/14/2013

RESPONSE TO REQUEST FOR CORRECTED FILING RECEIPT

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

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

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

/tgebrc/

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



UNITED STATES PATENT AND TRADEMARK OFFICE

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

APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
13/685,544	11/26/2012	Sami Vaarala	290.1078CON

**CONFIRMATION NO. 4882
IMPROPER CPOA LETTER**

33369
FASTH LAW OFFICES (ROLF FASTH)
26 PINECREST PLAZA, SUITE 2
SOUTHERN PINES, NC 28387-4301



Date Mailed: 11/14/2013

NOTICE REGARDING POWER OF ATTORNEY

This is in response to the power of attorney filed 11/04/2013. The power of attorney in this application is not accepted for the reason(s) listed below:

- The power of attorney has not been accepted because the party who is giving power has not been identified. Power of attorney may only be signed by the applicant for patent (37 CFR 1.42) or the patent owner. A party who is not the applicant must become the applicant in accordance with 37 CFR 1.46(c) and appoint any power of attorney in compliance with 37 CFR 3.71 and 3.73. For a reissue application, reexamination proceeding, or supplemental examination proceeding, a patent owner who was not the applicant under 37 CFR 1.46 must appoint any power of attorney in compliance with 37 CFR 3.71 and 3.73. See 37 CFR 1.32(b)(4).

/tgebrc/

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

**POWER OF ATTORNEY BY APPLICANT
FOR PATENT APPLICATION**

I hereby revoke all previous powers of attorney given in the application identified in the attached transmittal letter. I am the applicant and the assignee to whom the inventors of the identified application are under an obligation to assign.

I hereby authorize Rolf Fasth, the U.S. attorney named herein, to accept and follow instructions from Hoco IP Oy Ab as to any action to be taken in the U.S. Patent and Trademark Office regarding this application without direct communication between Rolf Fasth and the undersigned. In the event of a change in the persons from whom instructions may be taken, Rolf Fasth will be so notified by the undersigned.

I hereby appoint Rolf Fasth, Registration No. 36,959, to prosecute this application, to file a corresponding International application, and to transact all business in the U.S. Patent and Trademark Office connected therewith.

Address all telephone calls to Rolf Fasth at telephone number (910) 687-0001; fax number (910) 295-2152.

Address all correspondence to:

Rolf Fasth
FASTH LAW OFFICES
26 Pinecrest Plaza, Suite 2
Southern Pines, NC 28387-4301

Date	<u>September 17th, 2013</u>
Signature	<u>[Handwritten Signature]</u>
Name:	<u>Rolf Fasth</u>
Title and Company:	<u>CEO</u> , MFM Technologies Oy

Electronic Acknowledgement Receipt

EFS ID:	17300756
Application Number:	13685544
International Application Number:	
Confirmation Number:	4882
Title of Invention:	METHOD AND SYSTEM FOR SENDING A MESSAGE THROUGH A SECURE CONNECTION
First Named Inventor/Applicant Name:	Sami Vaarala
Customer Number:	33369
Filer:	Rolf Fasth/Sloan Smith
Filer Authorized By:	Rolf Fasth
Attorney Docket Number:	290.1078CON
Receipt Date:	04-NOV-2013
Filing Date:	26-NOV-2012
Time Stamp:	10:46:25
Application Type:	Utility under 35 USC 111(a)

Payment information:

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

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Miscellaneous Incoming Letter	REQUEST_UPDATE_NAME.pdf	55604 <small>111104605c0a1d9c655e3062b4f74cb70c521e6</small>	no	1

Warnings:

Information:

2	Application Data Sheet	aia0014.pdf	1396378 8ab177590693c930b84eb18707688b6a2e961251	no	6
Warnings:					
Information:					
3	Miscellaneous Incoming Letter	aia0096.pdf	118000 f6090d46a78764381500c905ebd91668b52e6288	no	3
Warnings:					
Information:					
4	Power of Attorney	POA.pdf	720010 d1e06e76d5125247585bb56d3aee26028c760ab4	no	1
Warnings:					
Information:					
Total Files Size (in bytes):				2289992	
<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>					

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of

Sami Vaarala, Antti Nuopponen

Art Unit 2469
Confirmation No. 4882

Serial No. 13/685,544

CERTIFICATE OF MAILING

Filed: 26 November 2012

I HEREBY CERTIFY THAT THIS PAPER AND THE DOCUMENTS REFERRED TO AS BEING ATTACHED OR ENCLOSED HERewith ARE BEING SUBMITTED ELECTRONICALLY TO THE UNITED STATES PATENT AND TRADEMARK OFFICE ON **4 November 2013**.

For: METHOD AND SYSTEM FOR
SENDING A MESSAGE
THROUGH A SECURE
CONNECTION

/rfasth/

Examiner: Afshawn M. Towfighi

Rolf Fasth
Attorney for Applicant

Date: 4 November 2013

This is a request to update the name of the applicant in the above application. The applicant hereby states that all errors which are being corrected in the oath/declaration arose without any deceptive intention on the part of the applicant. Respectfully submitted with this request are the following: Updated ADS naming the applicant as the assignee; a copy of the Power of Attorney, and form AIA96.

Respectfully submitted,

FASTH LAW OFFICES

/rfasth/

Rolf Fasth
Registration No. 36,999

FASTH LAW OFFICES
26 Pinecrest Plaza, Suite 2
Southern Pines, North Carolina 28387-4301

Telephone: 910-687-0001
Facsimile: 910-295-2152

Attorney Ref. No. 290.1078CON

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	290.1078CON
		Application Number	
Title of Invention	METHOD AND SYSTEM FOR SENDING A MESSAGE THROUGH A SECURE CONNECTION		
<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. 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

<input type="checkbox"/> 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					<input type="button" value="Remove"/>
Legal Name					
Prefix	Given Name	Middle Name	Family Name	Suffix	
	Sami		Vaarala		
Residence Information (Select One) <input type="radio"/> US Residency <input checked="" type="radio"/> Non US Residency <input type="radio"/> Active US Military Service					
City	Espoo	Country of Residence	FI		
Mailing Address of Inventor:					
Address 1	Saterinrinne 8 B 37				
Address 2					
City	FI-02600 Espoo	State/Province			
Postal Code	FI	Country	FI		
Inventor 2					<input type="button" value="Remove"/>
Legal Name					
Prefix	Given Name	Middle Name	Family Name	Suffix	
	Antti		Nuopponen		
Residence Information (Select One) <input type="radio"/> US Residency <input checked="" type="radio"/> Non US Residency <input type="radio"/> Active US Military Service					
City	Espoo	Country of Residence	FI		
Mailing Address of Inventor:					
Address 1	Kaksoiskiventie 7-9 A1				
Address 2					
City	FI-02760 Espo	State/Province			
Postal Code	FI	Country	FI		
All Inventors Must Be Listed - Additional Inventor Information blocks may be generated within this form by selecting the Add button.					<input type="button" value="Add"/>

Correspondence Information:

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

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	290.1078CON
		Application Number	
Title of Invention	METHOD AND SYSTEM FOR SENDING A MESSAGE THROUGH A SECURE CONNECTION		

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	33369		
Email Address	sloan.smith@fasthlaw.com	<input type="button" value="Add Email"/>	<input type="button" value="Remove Email"/>

Application Information:

Title of the Invention	METHOD AND SYSTEM FOR SENDING A MESSAGE THROUGH A SECURE CONNECTION		
Attorney Docket Number	290.1078CON	Small Entity Status Claimed	<input type="checkbox"/>
Application Type	Nonprovisional		
Subject Matter	Utility		
Suggested Class (if any)		Sub Class (if any)	
Suggested Technology Center (if any)			
Total Number of Drawing Sheets (if any)	2	Suggested Figure for Publication (if any)	

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:	<input checked="" type="radio"/> Customer Number	<input type="radio"/> US Patent Practitioner	<input type="radio"/> Limited Recognition (37 CFR 11.9)
Customer Number	33369		

Domestic Benefit/National Stage Information:

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

Prior Application Status	Pending	<input type="button" value="Remove"/>
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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	290.1078CON
		Application Number	
Title of Invention	METHOD AND SYSTEM FOR SENDING A MESSAGE THROUGH A SECURE CONNECTION		
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)
	Continuation of	10500930	2005-10-19
Additional Domestic Benefit/National Stage Data may be generated within this form by selecting the Add button.			<input type="button" value="Add"/>

Foreign Priority Information:

This section allows for the applicant to claim benefit of foreign priority and to identify any prior foreign application for which priority is not claimed. 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(a).

			<input type="button" value="Remove"/>
Application Number	Country ⁱ	Filing Date (YYYY-MM-DD)	Priority Claimed
			<input type="radio"/> Yes <input checked="" type="radio"/> No
Additional Foreign Priority Data may be generated within this form by selecting the Add button.			<input type="button" value="Add"/>

Authorization to Permit Access:

Authorization to Permit Access to the Instant Application by the Participating Offices

If checked, the undersigned hereby grants the USPTO authority to provide the European Patent Office (EPO), the Japan Patent Office (JPO), the Korean Intellectual Property Office (KIPO), the World Intellectual Property Office (WIPO), and any other intellectual property offices in which a foreign application claiming priority to the instant patent application is filed access to the instant patent application. See 37 CFR 1.14(c) and (h). This box should not be checked if the applicant does not wish the EPO, JPO, KIPO, WIPO, or other intellectual property office in which a foreign application claiming priority to the instant patent application is filed to have access to the instant patent application.

In accordance with 37 CFR 1.14(h)(3), access will be provided to a copy of the instant patent application with respect to: 1) the instant patent application-as-filed; 2) any foreign application to which the instant patent application claims priority under 35 U.S.C. 119(a)-(d) if a copy of the foreign application that satisfies the certified copy requirement of 37 CFR 1.55 has been filed in the instant patent application; and 3) any U.S. application-as-filed from which benefit is sought in the instant patent application.

In accordance with 37 CFR 1.14(c), access may be provided to information concerning the date of filing this Authorization.

Applicant Information:

Providing assignment information in this section does not substitute for compliance with any requirement of part 3 of Title 37 of CFR to have an assignment recorded by the Office.

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	290.1078CON
		Application Number	
Title of Invention	METHOD AND SYSTEM FOR SENDING A MESSAGE THROUGH A SECURE CONNECTION		

Applicant 1			
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.			
<input type="button" value="Remove"/>			
<input checked="" type="radio"/> Assignee		<input type="radio"/> Legal Representative under 35 U.S.C. 117	
<input type="radio"/> Person to whom the inventor is obligated to assign.		<input type="radio"/> 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 : <input type="text"/>			
If the Assignee is an Organization check here. <input checked="" type="checkbox"/>			
Organization Name	MPH TECHNOLOGIES OY		
Mailing Address Information:			
Address 1	Keilaranta 14		
Address 2			
City	FIN-02150 Espoo	State/Province	
Country	FI	Postal Code	
Phone Number		Fax Number	
Email Address			
Additional Applicant Data may be generated within this form by selecting the Add button. <input type="button" value="Add"/>			

Signature:				<input type="button" value="Remove"/>	
NOTE: This form must be signed in accordance with 37 CFR 1.33. See 37 CFR 1.4 for signature requirements and certifications					
Signature	/rfasth/		Date (YYYY-MM-DD)	2013-11-04	
First Name	Rolf	Last Name	Fasth	Registration Number	36999
Additional Signature may be generated within this form by selecting the Add button. <input type="button" value="Add"/>					

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	290.1078CON
		Application Number	
Title of Invention	METHOD AND SYSTEM FOR SENDING A MESSAGE THROUGH A SECURE CONNECTION		

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

Privacy Act Statement

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

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

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

STATEMENT UNDER 37 CFR 3.73(c)

Applicant/Patent Owner: MPH TECHNOLOGIES OY
Application No./Patent No.: 13685544 Filed/Issue Date: 26 November 2012
Titled: METHOD AND SYSTEM FOR SENDING A MESSAGE THROUGH A SECURE CONNECTION
MPH Technologies OY, a corporation
(Name of Assignee) (Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

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

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

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

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

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

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

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

- A. An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office at Reel 031250, Frame 0063, or for which a copy thereof is attached.
- B. A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as follows:

1. From: _____ To: _____

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

2. From: _____ To: _____

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

STATEMENT UNDER 37 CFR 3.73(c)

3. From: _____ To: _____

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

4. From: _____ To: _____

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

5. From: _____ To: _____

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

6. From: _____ To: _____

The document was recorded in the United States Patent and Trademark Office at
Reel _____, Frame _____, or for which a copy thereof is attached. Additional documents in the chain of title are listed on a supplemental sheet(s). As required by 37 CFR 3.73(c)(1)(i), the documentary evidence of the chain of title from the original owner to the assignee was, or concurrently is being, submitted for recordation pursuant to 37 CFR 3.11.

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

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

/rfasth/

Signature

Rolf Fasth

Printed or Typed Name

4 November 2013

Date

36999

Title or Registration Number

Privacy Act Statement

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

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

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

UNITED STATES PATENT AND TRADEMARK OFFICE
COMMISSIONER FOR PATENTS
P.O. BOX 1450
ALEXANDRIA VA 22313-1451

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FASTH LAW OFFICES (ROLF FASTH)
26 PINECREST PLAZA, SUITE 2
SOUTHERN PINES, NC 28387-4301



**Courtesy Reminder for
Application Serial No: 13/685,544**

Attorney Docket No: 290.1078CON

Customer Number: 33369

Date of Electronic Notification: 10/21/2013

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:

sloan.smith@fasthlaw.com

nan_russell@fasthlaw.com

To view your correspondence online or update your email addresses, please visit us anytime at <https://sportal.uspto.gov/secure/myportal/privatepair>. If you have any questions, please email the Electronic Business Center (EBC) at EBC@uspto.gov or call 1-866-217-9197.



UNITED STATES PATENT AND TRADEMARK OFFICE

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

NOTICE OF ALLOWANCE AND FEE(S) DUE

33369 7590 10/21/2013
FASTH LAW OFFICES (ROLF FASTH)
26 PINECREST PLAZA, SUITE 2
SOUTHERN PINES, NC 28387-4301

EXAMINER

TOWFIGHI, AFSHAWN M

ART UNIT PAPER NUMBER

2469

DATE MAILED: 10/21/2013

Table with 5 columns: APPLICATION NO., FILING DATE, FIRST NAMED INVENTOR, ATTORNEY DOCKET NO., CONFIRMATION NO.
13/685,544 11/26/2012 Sami Vaarala 290.1078CON 4882

TITLE OF INVENTION: METHOD AND SYSTEM FOR SENDING A MESSAGE THROUGH A SECURE CONNECTION

Table with 7 columns: APPLN. TYPE, ENTITY STATUS, ISSUE FEE DUE, PUBLICATION FEE DUE, PREV. PAID ISSUE FEE, TOTAL FEE(S) DUE, DATE DUE
nonprovisional UNDISCOUNTED \$1780 \$300 \$0 \$2080 01/21/2014

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: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

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

- Applicant certifying micro entity status. See 37 CFR 1.29
- Applicant asserting small entity status. See 37 CFR 1.27
- Applicant changing to regular undiscounted fee status.

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

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

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

NOTE: The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office.

Authorized Signature _____

Date _____

Typed or printed name _____

Registration No. _____

This collection of information 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 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, 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.



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

Table with 5 columns: APPLICATION NO., FILING DATE, FIRST NAMED INVENTOR, ATTORNEY DOCKET NO., CONFIRMATION NO.
13/685,544 11/26/2012 Sami Vaarala 290.1078CON 4882

33369 7590 10/21/2013
FASTH LAW OFFICES (ROLF FASTH)
26 PINECREST PLAZA, SUITE 2
SOUTHERN PINES, NC 28387-4301

EXAMINER

TOWFIGHI, AFSHAWN M

ART UNIT PAPER NUMBER

2469

DATE MAILED: 10/21/2013

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

The Patent Term Adjustment to date is 0 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 0 day(s).

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 Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

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.

**Notices of Allowance and Fee(s) Due mailed between October 1, 2013 and
December 31, 2013**

(Addendum to PTOL-85)

If the "Notice of Allowance and Fee(s) Due" has a mailing date on or after October 1, 2013 and before January 1, 2014, the following information is applicable to this application.

If the issue fee is being timely paid on or after January 1, 2014, the amount due is the issue fee and publication fee in effect January 1, 2014. On January 1, 2014, the issue fees set forth in 37 CFR 1.18 decrease significantly and the publication fee set forth in 37 CFR 1.18(d)(1) decreases to \$0.

If an issue fee or publication fee has been previously paid in this application, applicant is not entitled to a refund of the difference between the amount paid and the amount in effect on January 1, 2014.

Examiner-Initiated Interview Summary	Application No.	Applicant(s)	
	13/685,544	VAARALA ET AL.	
	Examiner	Art Unit	
	AFSHAWN TOWFIGHI	2469	

All participants (applicant, applicant's representative, PTO personnel):

(1) AFSHAWN TOWFIGHI. (3)_____.

(2) Rolf Fasth. (4)_____.

Date of Interview: 08 October 2013.

Type: Telephonic Video Conference
 Personal [copy given to: applicant applicant's representative]

Exhibit shown or demonstration conducted: Yes No.
If Yes, brief description: _____.

Issues Discussed 101 112 102 103 Others
(For each of the checked box(es) above, please describe below the issue and detailed description of the discussion)

Claim(s) discussed: n/a.

Identification of prior art discussed: n/a.

Substance of Interview

(For each issue discussed, provide a detailed description and indicate if agreement was reached. Some topics may include: identification or clarification of a reference or a portion thereof, claim interpretation, proposed amendments, arguments of any applied references etc...)

Examiner received authorization to enter amendments clarifying the secure connection to be "the first computer and the second computer negotiating and exchanging keys with one another according to a key exchange protocol to establish the secure connection between the first computer and the second computer via the intermediate computer, the secure connection having a source address of the first computer as a first end point and a destination address of the second computer as a second end point of the secure connection,".

Applicant recordation instructions: It is not necessary for applicant to provide a separate record of the substance of interview.

Examiner recordation instructions: Examiners must summarize the substance of any interview of record. A complete and proper recordation of the substance of an interview should include the items listed in MPEP 713.04 for complete and proper recordation including the identification of the general thrust of each argument or issue discussed, a general indication of any other pertinent matters discussed regarding patentability and the general results or outcome of the interview, to include an indication as to whether or not agreement was reached on the issues raised.

Attachment

/AFSHAWN TOWFIGHI/
Primary Examiner, Art Unit 2469

Notice of Allowability	Application No. 13/685,544	Applicant(s) VAARALA ET AL.	
	Examiner AFSHAWN TOWFIGHI	Art Unit 2469	AIA (First Inventor to File) 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 claims filed 11/26/12.
 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 30-33 (renumbered 1-4). 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)

- | | |
|---|---|
| <ol style="list-style-type: none"> 1. <input type="checkbox"/> Notice of References Cited (PTO-892) 2. <input type="checkbox"/> Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date _____ 3. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit of Biological Material 4. <input checked="" type="checkbox"/> Interview Summary (PTO-413),
Paper No./Mail Date <u>10/8/13</u> . | <ol style="list-style-type: none"> 5. <input checked="" type="checkbox"/> Examiner's Amendment/Comment 6. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance 7. <input type="checkbox"/> Other _____. |
|---|---|

/AFSHAWN TOWFIGHI/
Primary Examiner, Art Unit 2469

DETAILED ACTION

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

EXAMINER'S AMENDMENT

2. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Rolf Fasth on 10/8/13.

The application has been amended as follows:

Lines 3-5 of claim 1 should be replaced with "*the first computer and the second computer negotiating and exchanging keys with one another according to a key exchange protocol to establish the secure connection between the first computer and the second computer via the intermediate computer, the secure connection having a source address of the first computer as a first end point and a destination address of the second computer as a second end point of the secure connection,*".

Allowable Subject Matter

3. Claims 30-33 (renumbered 1-4) (amended) are allowed.

4. The following is an examiner's statement of reasons for allowance:

Amended claims 30-33 (renumbered 1-4) are allowable over prior art since the prior art reference(s) taken individually or in combination fails to particularly disclose, fairly suggests, or render obvious as argued by the applicant which examiner considers as persuasive as set forth above. Additional reasons for allowance can be found in the Notice of Allowance for parent application 10/500,930 dated 1/12/12.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to AFSHAWN TOWFIGHI whose telephone number is (571)270-7296. The examiner can normally be reached on Monday - Friday 9:00 A.M. to 6:00 P.M..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ian Moore can be reached on (571)272-3085. 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.

/AFSHAWN TOWFIGHI/

Primary Examiner, Art Unit 2469

Examiner-Initiated Interview Summary	Application No. 13/685,544	Applicant(s) VAARALA ET AL.	
	Examiner AFSHAWN TOWFIGHI	Art Unit 2469	

All participants (applicant, applicant's representative, PTO personnel):

(1) AFSHAWN TOWFIGHI. (3)_____.

(2) Rolf Fasth. (4)_____.

Date of Interview: 08 October 2013.

Type: Telephonic Video Conference
 Personal [copy given to: applicant applicant's representative]

Exhibit shown or demonstration conducted: Yes No.
If Yes, brief description: _____.

Issues Discussed 101 112 102 103 Others
(For each of the checked box(es) above, please describe below the issue and detailed description of the discussion)

Claim(s) discussed: n/a.

Identification of prior art discussed: n/a.

Substance of Interview
(For each issue discussed, provide a detailed description and indicate if agreement was reached. Some topics may include: identification or clarification of a reference or a portion thereof, claim interpretation, proposed amendments, arguments of any applied references etc...)


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Examiner recordation instructions: Examiners must summarize the substance of any interview of record. A complete and proper recordation of the substance of an interview should include the items listed in MPEP 713.04 for complete and proper recordation including the identification of the general thrust of each argument or issue discussed, a general indication of any other pertinent matters discussed regarding patentability and the general results or outcome of the interview, to include an indication as to whether or not agreement was reached on the issues raised.


Attachment

/AFSHAWN TOWFIGHI/ Primary Examiner, Art Unit 2469	
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Issue Classification 	Application/Control No. 13685544	Applicant(s)/Patent Under Reexamination VAARALA ET AL.
	Examiner AFSHAWN TOWFIGHI	Art Unit 2469

<input type="checkbox"/> Claims renumbered in the same order as presented by applicant		<input type="checkbox"/> CPA		<input type="checkbox"/> T.D.		<input type="checkbox"/> R.1.47									
Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original
	1		17	4	33										
	2		18												
	3		19												
	4		20												
	5		21												
	6		22												
	7		23												
	8		24												
	9		25												
	10		26												
	11		27												
	12		28												
	13		29												
	14	1	30												
	15	2	31												
	16	3	32												


NONE		Total Claims Allowed:	
		4	
(Assistant Examiner)	(Date)	O.G. Print Claim(s)	O.G. Print Figure
/AFSHAWN TOWFIGHI/ Primary Examiner.Art Unit 2469	10/7/13	1	1
(Primary Examiner)	(Date)		

Index of Claims 	Application/Control No. 13685544	Applicant(s)/Patent Under Reexamination VAARALA ET AL.
	Examiner AFSHAWN TOWFIGHI	Art Unit 2469

✓	Rejected	-	Cancelled	N	Non-Elected	A	Appeal
=	Allowed	÷	Restricted	I	Interference	O	Objected

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

CLAIM		DATE									
Final	Original	10/08/2013									
	1	-									
	2	-									
	3	-									
	4	-									
	5	-									
	6	-									
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	28	-									
	29	-									
1	30	=									
2	31	=									
3	32	=									
4	33	=									

Search Notes 	Application/Control No. 13685544	Applicant(s)/Patent Under Reexamination VAARALA ET AL.
	Examiner AFSHAWN TOWFIGHI	Art Unit 2469

CPC- SEARCHED		
Symbol	Date	Examiner

CPC COMBINATION SETS - SEARCHED		
Symbol	Date	Examiner

US CLASSIFICATION SEARCHED			
Class	Subclass	Date	Examiner
709	236, 239, 245	10/7/2013	AT

SEARCH NOTES		
Search Notes	Date	Examiner
Inventor Search in EAST - see search history printout	10/7/2013	AT
Assignee Search in EAST - see search history printout	10/7/2013	AT
EAST (USPAT, USPGPUB, EPO, JPO) - see search history printout	10/7/2013	AT

INTERFERENCE SEARCH			
US Class/ CPC Symbol	US Subclass / CPC Group	Date	Examiner
	Interference Search - see search history printout	10/7/2013	AT

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United States Patent and Trademark Office
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 P.O. Box 1450
 Alexandria, Virginia 22313-1450
 www.uspto.gov

BIB DATA SHEET
CONFIRMATION NO. 4882

SERIAL NUMBER	FILING or 371(c) DATE	CLASS	GROUP ART UNIT	ATTORNEY DOCKET NO.		
13/685,544	11/26/2012	713	2469	290.1078CON		
RULE						
APPLICANTS Sami Vaarala, Espoo, FINLAND; Antti Nuopponen, Espoo, FINLAND;						
** CONTINUING DATA ***** This application is a CON of 10/500,930 10/19/2005 PAT 8346949 * (*)Data provided by applicant is not consistent with PTO records.						
** FOREIGN APPLICATIONS *****						
** IF REQUIRED, FOREIGN FILING LICENSE GRANTED ** 12/17/2012						
Foreign Priority claimed	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		STATE OR COUNTRY	SHEETS DRAWINGS	TOTAL CLAIMS	INDEPENDENT CLAIMS
35 USC 119(a-d) conditions met	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Met after Allowance	FINLAND	6	4	1
Verified and	/AFSHAWN M TOWFIGHI/	Initials				
Acknowledged	Examiner's Signature					
ADDRESS FASTH LAW OFFICES (ROLF FASTH) 26 PINECREST PLAZA, SUITE 2 SOUTHERN PINES, NC 28387-4301 UNITED STATES						
TITLE METHOD AND SYSTEM FOR SENDING A MESSAGE THROUGH A SECURE CONNECTION						
FILING FEE RECEIVED 1710	FEES: Authority has been given in Paper No. _____ to charge/credit DEPOSIT ACCOUNT No. _____ for following:			<input type="checkbox"/> All Fees <input type="checkbox"/> 1.16 Fees (Filing) <input type="checkbox"/> 1.17 Fees (Processing Ext. of time) <input type="checkbox"/> 1.18 Fees (Issue) <input type="checkbox"/> Other _____ <input type="checkbox"/> Credit		

EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	2	"20010047487"	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L2	5980	709/236.ccls. or 709/245.ccls.	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L3	19	L2 and secure near10 key near10 exchang\$3	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L4	625	ipsec same tunnel\$3 same IKE	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L5	192	ipsec same tunnel\$3 same IKE same (gateway or proxy or intermediate)	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L6	3	"US 20060173968"	US-PGPUB; USPAT; USOCR; DERWENT	OR	OFF	2013/10/08 12:53
L7	12	ipsec same tunnel\$3 same IKE same (gateway or proxy or intermediate) and cookie	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L8	24	ike with responder with cookie	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L9	3955	ipsec same (ssl or tls)	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L10	3472	ipsec with(ssl or tls)	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L11	3472	ipsec with (ssl or tls)	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
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L13	2591	ipsec near5 (ssl or tls)	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
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L15	5980	709/236.ccls. or 709/245.ccls.	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L16	19	L15 and secure near10 key near10 exchang\$3	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L17	625	ipsec same tunnel\$3 same IKE	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L18	192	ipsec same tunnel\$3 same IKE same (gateway or proxy or intermediate)	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L19	3	"US 20060173968"	US-PGPUB; USPAT; USOCR; DERWENT	OR	OFF	2013/10/08 12:53
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L21	24	ike with responder with cookie	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
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L24	3472	ipsec with (ssl or tls)	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
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L29	19	L28 and secure near10 key near10 exchang\$3	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
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L31	192	ipsec same tunnel\$3 same IKE same (gateway or proxy or intermediate)	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
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L41	5980	709/236.ccls. or 709/245.ccls.	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L42	19	L41 and secure near10 key near10 exchang\$3	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L43	625	ipsec same tunnel\$3 same IKE	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L44	192	ipsec same tunnel\$3 same IKE same (gateway or proxy or intermediate)	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
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			DERWENT			
L46	12	ipsec same tunnel\$3 same IKE same (gateway or proxy or intermediate) and cookie	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L47	24	ike with responder with cookie	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
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L49	3472	ipsec with(ssl or tls)	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L50	3472	ipsec with (ssl or tls)	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L51	2591	ipsec near5(ssl or tls)	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L52	2591	ipsec near5 (ssl or tls)	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
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L54	21	"6744741"	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L55	25	"7055027"	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L56	2	"20010047487"	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L57	5980	709/236.ccls. or 709/245.ccls.	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L58	19	L57 and secure near10 key near10 exchang\$3	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L59	625	ipsec same tunnel\$3 same IKE	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L60	192	ipsec same tunnel\$3 same IKE same (gateway or proxy or intermediate)	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L61	3	"US 20060173968"	US-PGPUB; USPAT; USOCR; DERWENT	OR	OFF	2013/10/08 12:53
L62	12	ipsec same tunnel\$3 same IKE same (gateway or proxy or intermediate) and cookie	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L63	24	ike with responder with cookie	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L64	3955	ipsec same (ssl or tls)	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L65	3472	ipsec with(ssl or tls)	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L66	3472	ipsec with (ssl or tls)	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L67	2591	ipsec near5(ssl or tls)	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L68	2591	ipsec near5 (ssl or tls)	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L69	2	"20010047487"	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L70	5980	709/236.ccls. or 709/245.ccls.	US-PGPUB;	OR	OFF	2013/10/08

			USPAT			12:53
L71	19	L70 and secure near10 key near10 exchang\$3	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L72	625	ipsec same tunnel\$3 same IKE	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L73	192	ipsec same tunnel\$3 same IKE same (gateway or proxy or intermediate)	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L74	3	"US 20060173968"	US-PGPUB; USPAT; USOCR; DERWENT	OR	OFF	2013/10/08 12:53
L75	12	ipsec same tunnel\$3 same IKE same (gateway or proxy or intermediate) and cookie	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L76	24	ike with responder with cookie	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L77	3955	ipsec same (ssl or tls)	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L78	3472	ipsec with(ssl or tls)	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L79	3472	ipsec with (ssl or tls)	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L80	2591	ipsec near5(ssl or tls)	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L81	2591	ipsec near5 (ssl or tls)	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L82	2	"20010047487"	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L83	5980	709/236.ccls. or 709/245.ccls.	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L84	19	L83 and secure near10 key near10 exchang\$3	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L85	625	ipsec same tunnel\$3 same IKE	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L86	192	ipsec same tunnel\$3 same IKE same (gateway or proxy or intermediate)	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L87	3	"US 20060173968"	US-PGPUB; USPAT; USOCR; DERWENT	OR	OFF	2013/10/08 12:53
L88	12	ipsec same tunnel\$3 same IKE same (gateway or proxy or intermediate) and cookie	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L89	24	ike with responder with cookie	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L90	3955	ipsec same (ssl or tls)	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L91	3472	ipsec with(ssl or tls)	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L92	3472	ipsec with (ssl or tls)	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L93	2591	ipsec near5(ssl or tls)	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L94	2591	ipsec near5 (ssl or tls)	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53

L95	2	"20010047487"	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L96	5980	709/236.ccls. or 709/245.ccls.	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L97	19	L96 and secure near10 key near10 exchang\$3	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L98	625	ipsec same tunnel\$3 same IKE	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L99	192	ipsec same tunnel\$3 same IKE same (gateway or proxy or intermediate)	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L100	3	"US 20060173968"	US-PGPUB; USPAT; USOCR; DERWENT	OR	OFF	2013/10/08 12:53
L101	12	ipsec same tunnel\$3 same IKE same (gateway or proxy or intermediate) and cookie	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L102	24	ike with responder with cookie	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L103	3955	ipsec same (ssl or tls)	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L104	3472	ipsec with(ssl or tls)	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L105	3472	ipsec with (ssl or tls)	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L106	2591	ipsec near5(ssl or tls)	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L107	2591	ipsec near5 (ssl or tls)	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L108	5	"7882538"	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L109	21	"6744741"	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L110	25	"7055027"	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L111	11	((SAMI) near2 (VAARALA)).INV.	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L112	11	((ANTTI) near2 (NUOPPONEN)).INV.	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L113	11	L111 or L112	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L114	10	L113 and (secure adj connection).clm.	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L115	9	L113 and (secure adj connection with address).clm.	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L116	3	L113 and (secure adj connection with intermediate with address).clm.	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L120	2	"20010047487"	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L121	5980	709/236.ccls. or 709/245.ccls.	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L122	19	L121 and secure near10 key near10 exchang\$3	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53

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L123	625	ipsec same tunnel\$3 same IKE	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L124	192	ipsec same tunnel\$3 same IKE same (gateway or proxy or intermediate)	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L125	3	"US 20060173968"	US-PGPUB; USPAT; USOCR; DERWENT	OR	OFF	2013/10/08 12:53
L126	12	ipsec same tunnel\$3 same IKE same (gateway or proxy or intermediate) and cookie	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L127	24	ike with responder with cookie	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L128	3955	ipsec same (ssl or tls)	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L129	3472	ipsec with(ssl or tls)	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L130	3472	ipsec with (ssl or tls)	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L131	2591	ipsec near5(ssl or tls)	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L132	2591	ipsec near5 (ssl or tls)	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L133	2	"20010047487"	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L134	5980	709/236.ccls. or 709/245.ccls.	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L135	19	L134 and secure near10 key near10 exchang\$3	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L136	625	ipsec same tunnel\$3 same IKE	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L137	192	ipsec same tunnel\$3 same IKE same (gateway or proxy or intermediate)	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L138	3	"US 20060173968"	US-PGPUB; USPAT; USOCR; DERWENT	OR	OFF	2013/10/08 12:53
L139	12	ipsec same tunnel\$3 same IKE same (gateway or proxy or intermediate) and cookie	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L140	24	ike with responder with cookie	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L141	3955	ipsec same (ssl or tls)	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L142	3472	ipsec with(ssl or tls)	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L143	3472	ipsec with (ssl or tls)	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L144	2591	ipsec near5(ssl or tls)	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L145	2591	ipsec near5 (ssl or tls)	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L146	2	"20010047487"	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L147	5980	709/236.ccls. or 709/245.ccls.	US-PGPUB;	OR	OFF	2013/10/08

			USPAT			12:53
L148	19	L147 and secure near10 key near10 exchang\$3	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L149	625	ipsec same tunnel\$3 same IKE	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L150	192	ipsec same tunnel\$3 same IKE same (gateway or proxy or intermediate)	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L151	3	"US 20060173968"	US-PGPUB; USPAT; USOCR; DERWENT	OR	OFF	2013/10/08 12:53
L152	12	ipsec same tunnel\$3 same IKE same (gateway or proxy or intermediate) and cookie	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L153	24	ike with responder with cookie	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L154	3955	ipsec same (ssl or tls)	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L155	3472	ipsec with(ssl or tls)	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L156	3472	ipsec with (ssl or tls)	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L157	2591	ipsec near5(ssl or tls)	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L158	2591	ipsec near5 (ssl or tls)	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L159	2	"20010047487"	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L160	5980	709/236.ccls. or 709/245.ccls.	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L161	19	L160 and secure near10 key near10 exchang\$3	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L162	625	ipsec same tunnel\$3 same IKE	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L163	192	ipsec same tunnel\$3 same IKE same (gateway or proxy or intermediate)	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L164	3	"US 20060173968"	US-PGPUB; USPAT; USOCR; DERWENT	OR	OFF	2013/10/08 12:53
L165	12	ipsec same tunnel\$3 same IKE same (gateway or proxy or intermediate) and cookie	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L166	24	ike with responder with cookie	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L167	3955	ipsec same (ssl or tls)	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L168	3472	ipsec with(ssl or tls)	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L169	3472	ipsec with (ssl or tls)	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L170	2591	ipsec near5(ssl or tls)	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L171	2591	ipsec near5 (ssl or tls)	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53

L172	5	"7882538"	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L173	21	"6744741"	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L174	25	"7055027"	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L175	2	"20010047487"	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L176	5980	709/236.ccls. or 709/245.ccls.	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L177	19	L176 and secure near10 key near10 exchang\$3	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L178	625	ipsec same tunnel\$3 same IKE	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L179	192	ipsec same tunnel\$3 same IKE same (gateway or proxy or intermediate)	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L180	3	"US 20060173968"	US-PGPUB; USPAT; USOCR; DERWENT	OR	OFF	2013/10/08 12:53
L181	12	ipsec same tunnel\$3 same IKE same (gateway or proxy or intermediate) and cookie	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L182	24	ike with responder with cookie	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L183	3955	ipsec same (ssl or tls)	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L184	3472	ipsec with(ssl or tls)	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L185	3472	ipsec with (ssl or tls)	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L186	2591	ipsec near5(ssl or tls)	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L187	2591	ipsec near5 (ssl or tls)	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L188	2	"20010047487"	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L189	5980	709/236.ccls. or 709/245.ccls.	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L190	19	L189 and secure near10 key near10 exchang\$3	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L191	625	ipsec same tunnel\$3 same IKE	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L192	192	ipsec same tunnel\$3 same IKE same (gateway or proxy or intermediate)	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L193	3	"US 20060173968"	US-PGPUB; USPAT; USOCR; DERWENT	OR	OFF	2013/10/08 12:53
L194	12	ipsec same tunnel\$3 same IKE same (gateway or proxy or intermediate) and cookie	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L195	24	ike with responder with cookie	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L196	3955	ipsec same (ssl or tls)	US-PGPUB;	OR	OFF	2013/10/08

			USPAT			12:53
L197	3472	ipsec with(ssl or tls)	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L198	3472	ipsec with (ssl or tls)	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L199	2591	ipsec near5(ssl or tls)	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L200	2591	ipsec near5 (ssl or tls)	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L201	2	"20010047487"	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L202	5980	709/236.ccls. or 709/245.ccls.	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L203	19	L202 and secure near10 key near10 exchang\$3	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L204	625	ipsec same tunnel\$3 same IKE	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L205	192	ipsec same tunnel\$3 same IKE same (gateway or proxy or intermediate)	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L206	3	"US 20060173968"	US-PGPUB; USPAT; USOCR; DERWENT	OR	OFF	2013/10/08 12:53
L207	12	ipsec same tunnel\$3 same IKE same (gateway or proxy or intermediate) and cookie	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L208	24	ike with responder with cookie	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L209	3955	ipsec same (ssl or tls)	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L210	3472	ipsec with(ssl or tls)	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L211	3472	ipsec with (ssl or tls)	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L212	2591	ipsec near5(ssl or tls)	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L213	2591	ipsec near5 (ssl or tls)	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L214	2	"20010047487"	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L215	5980	709/236.ccls. or 709/245.ccls.	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L216	19	L215 and secure near10 key near10 exchang\$3	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L217	625	ipsec same tunnel\$3 same IKE	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L218	192	ipsec same tunnel\$3 same IKE same (gateway or proxy or intermediate)	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L219	3	"US 20060173968"	US-PGPUB; USPAT; USOCR; DERWENT	OR	OFF	2013/10/08 12:53
L220	12	ipsec same tunnel\$3 same IKE same (gateway or proxy or intermediate) and cookie	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53

L221	24	ike with responder with cookie	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L222	3955	ipsec same (ssl or tls)	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L223	3472	ipsec with(ssl or tls)	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L224	3472	ipsec with (ssl or tls)	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L225	2591	ipsec near5(ssl or tls)	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L226	2591	ipsec near5 (ssl or tls)	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L227	5	"7882538"	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L228	21	"6744741"	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L229	25	"7055027"	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L230	11	((SAMI) near2 (VAARALA)).INV.	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L231	11	((ANTTI) near2 (NUOPPONEN)).INV.	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L232	11	L230 or L231	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L233	10	L232 and (secure adj connection).clm.	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L234	9	L232 and (secure adj connection with address).clm.	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L235	3	L232 and (secure adj connection with intermediate with address).clm.	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L236	118275	("6732269" "6718388" "6957346" "6795917").pn"	US-PGPUB; USPAT; EPO; JPO	OR	ON	2013/10/08 12:53
L237	4	("6732269" "6718388" "6957346" "6795917").pn.	US-PGPUB; USPAT; EPO; JPO	OR	ON	2013/10/08 12:53
L238	5980	709/236.ccls. or 709/245.ccls.	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L239	3955	ipsec same (ssl or tls)	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L240	3472	ipsec with(ssl or tls)	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L241	3472	ipsec with (ssl or tls)	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L242	2591	ipsec near5(ssl or tls)	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L243	5980	709/236.ccls. or 709/245.ccls.	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L244	3955	ipsec same (ssl or tls)	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L245	3472	ipsec with(ssl or tls)	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L246	3472	ipsec with (ssl or tls)	US-PGPUB;	OR	OFF	2013/10/08

			USPAT			12:53
L247	2591	ipsec near5(ssl or tls)	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L248	5980	709/236.ccls. or 709/245.ccls.	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L249	3955	ipsec same (ssl or tls)	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L250	3472	ipsec with(ssl or tls)	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L251	3472	ipsec with (ssl or tls)	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L252	2591	ipsec near5(ssl or tls)	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L253	5980	709/236.ccls. or 709/245.ccls.	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L254	3955	ipsec same (ssl or tls)	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L255	3472	ipsec with(ssl or tls)	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L256	3472	ipsec with (ssl or tls)	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L257	2591	ipsec near5(ssl or tls)	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L258	5	"7882538"	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L259	5980	709/236.ccls. or 709/245.ccls.	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L260	3955	ipsec same (ssl or tls)	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L261	3472	ipsec with(ssl or tls)	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L262	3472	ipsec with (ssl or tls)	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L263	2591	ipsec near5(ssl or tls)	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L264	5980	709/236.ccls. or 709/245.ccls.	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L265	3955	ipsec same (ssl or tls)	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L266	3472	ipsec with(ssl or tls)	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L267	3472	ipsec with (ssl or tls)	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L268	2591	ipsec near5(ssl or tls)	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L269	5980	709/236.ccls. or 709/245.ccls.	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L270	3955	ipsec same (ssl or tls)	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L271	3472	ipsec with(ssl or tls)	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L272	3472	ipsec with (ssl or tls)	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L273	2591	ipsec near5(ssl or tls)	US-PGPUB;	OR	OFF	2013/10/08

			USPAT			12:53
L274	5980	709/236.ccls. or 709/245.ccls.	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L275	3955	ipsec same (ssl or tls)	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L276	3472	ipsec with(ssl or tls)	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L277	3472	ipsec with (ssl or tls)	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L278	2591	ipsec near5(ssl or tls)	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L279	5	"7882538"	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L280	11	L230 or L231	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L281	10	L232 and (secure adj connection).clm.	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L282	9	L232 and (secure adj connection with address).clm.	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L283	3	L232 and (secure adj connection with intermediate with address).clm.	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L284	2	"20010047487"	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L285	19	L121 and secure near10 key near10 exchang\$3	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L286	3	"US 20060173968"	US-PGPUB; USPAT; USOCR; DERWENT	OR	OFF	2013/10/08 12:53
L287	12	ipsec same tunnel\$3 same IKE same (gateway or proxy or intermediate) and cookie	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L288	24	ike with responder with cookie	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L289	2	"20010047487"	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L290	19	L134 and secure near10 key near10 exchang\$3	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L291	3	"US 20060173968"	US-PGPUB; USPAT; USOCR; DERWENT	OR	OFF	2013/10/08 12:53
L292	12	ipsec same tunnel\$3 same IKE same (gateway or proxy or intermediate) and cookie	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L293	24	ike with responder with cookie	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L294	2	"20010047487"	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L295	19	L147 and secure near10 key near10 exchang\$3	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L296	3	"US 20060173968"	US-PGPUB; USPAT; USOCR; DERWENT	OR	OFF	2013/10/08 12:53
L297	12	ipsec same tunnel\$3 same IKE same (gateway or proxy or	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53

		intermediate) and cookie				
L298	24	ike with responder with cookie	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L299	2	"20010047487"	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L300	19	L160 and secure near10 key near10 exchang\$3	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L301	3	"US 20060173968"	US-PGPUB; USPAT; USOCR; DERWENT	OR	OFF	2013/10/08 12:53
L302	12	ipsec same tunnel\$3 same IKE same (gateway or proxy or intermediate) and cookie	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L303	24	ike with responder with cookie	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L304	21	"6744741"	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L305	25	"7055027"	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L306	2	"20010047487"	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L307	19	L176 and secure near10 key near10 exchang\$3	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L308	3	"US 20060173968"	US-PGPUB; USPAT; USOCR; DERWENT	OR	OFF	2013/10/08 12:53
L309	12	ipsec same tunnel\$3 same IKE same (gateway or proxy or intermediate) and cookie	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L310	24	ike with responder with cookie	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L311	2	"20010047487"	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L312	19	L189 and secure near10 key near10 exchang\$3	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L313	3	"US 20060173968"	US-PGPUB; USPAT; USOCR; DERWENT	OR	OFF	2013/10/08 12:53
L314	12	ipsec same tunnel\$3 same IKE same (gateway or proxy or intermediate) and cookie	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L315	24	ike with responder with cookie	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L316	2	"20010047487"	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L317	19	L202 and secure near10 key near10 exchang\$3	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L318	3	"US 20060173968"	US-PGPUB; USPAT; USOCR; DERWENT	OR	OFF	2013/10/08 12:53
L319	12	ipsec same tunnel\$3 same IKE same (gateway or proxy or intermediate) and cookie	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L320	24	ike with responder with cookie	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53

L321	2	"20010047487"	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L322	19	L215 and secure near10 key near10 exchang\$3	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L323	3	"US 20060173968"	US-PGPUB; USPAT; USOCR; DERWENT	OR	OFF	2013/10/08 12:53
L324	12	ipsec same tunnel\$3 same IKE same (gateway or proxy or intermediate) and cookie	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L325	24	ike with responder with cookie	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L326	21	"6744741"	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L327	25	"7055027"	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L328	11	((SAMI) near2 (VAARALA)).INV.	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L329	11	((ANTTI) near2 (NUOPPONEN)).INV.	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L330	192	ipsec same tunnel\$3 same IKE same (gateway or proxy or intermediate)	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L331	192	ipsec same tunnel\$3 same IKE same (gateway or proxy or intermediate)	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L332	192	ipsec same tunnel\$3 same IKE same (gateway or proxy or intermediate)	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L333	192	ipsec same tunnel\$3 same IKE same (gateway or proxy or intermediate)	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L334	192	ipsec same tunnel\$3 same IKE same (gateway or proxy or intermediate)	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L335	192	ipsec same tunnel\$3 same IKE same (gateway or proxy or intermediate)	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L336	192	ipsec same tunnel\$3 same IKE same (gateway or proxy or intermediate)	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L337	192	ipsec same tunnel\$3 same IKE same (gateway or proxy or intermediate)	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L338	625	ipsec same tunnel\$3 same IKE	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L339	625	ipsec same tunnel\$3 same IKE	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L340	625	ipsec same tunnel\$3 same IKE	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L341	625	ipsec same tunnel\$3 same IKE	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L342	625	ipsec same tunnel\$3 same IKE	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L343	625	ipsec same tunnel\$3 same IKE	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53

L344	625	ipsec same tunnel\$3 same IKE	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L345	625	ipsec same tunnel\$3 same IKE	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L346	2591	ipsec near5 (ssl or tls)	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L347	2591	ipsec near5 (ssl or tls)	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L348	2591	ipsec near5 (ssl or tls)	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L349	2591	ipsec near5 (ssl or tls)	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L350	2591	ipsec near5 (ssl or tls)	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L351	2591	ipsec near5 (ssl or tls)	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L352	2591	ipsec near5 (ssl or tls)	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L353	2591	ipsec near5 (ssl or tls)	US-PGPUB; USPAT	OR	OFF	2013/10/08 12:53
L354	118275	("6732269" "6718388" "6957346" "6795917").pn"	US-PGPUB; USPAT; EPO; JPO	OR	ON	2013/10/08 12:53
L355	4	("6732269" "6718388" "6957346" "6795917").pn.	US-PGPUB; USPAT; EPO; JPO	OR	ON	2013/10/08 12:53

EAST Search History (Interference)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L117	2	(secure adj connection with intermediate with address).clm.	USPAT; UPAD	OR	OFF	2013/10/08 12:53
L118	16	(secure adj connection with (intermediate or gateway or proxy) with address).clm.	USPAT; UPAD	OR	OFF	2013/10/08 12:53
L119	3	(secure adj connection with (intermediate or gateway or proxy) with (key or token) with address).clm.	USPAT; UPAD	OR	OFF	2013/10/08 12:53
L356	2	(secure adj connection with intermediate with address).clm.	USPAT; UPAD	OR	OFF	2013/10/08 12:53
L357	16	(secure adj connection with (intermediate or gateway or proxy) with address).clm.	USPAT; UPAD	OR	OFF	2013/10/08 12:53
L358	3	(secure adj connection with (intermediate or gateway or proxy) with (key or token) with address).clm.	USPAT; UPAD	OR	OFF	2013/10/08 12:53
L359	2	(secure adj connection with intermediate with address).clm.	USPAT; UPAD	OR	OFF	2013/10/08 12:53
L360	16	(secure adj connection with (intermediate or gateway or proxy) with address).clm.	USPAT; UPAD	OR	OFF	2013/10/08 12:53
L361	3	(secure adj connection with (intermediate or gateway or proxy) with (key or token) with address).clm.	USPAT; UPAD	OR	OFF	2013/10/08 12:53

10/ 8/ 2013 1:12:40 PM

C:\Users\atowfighi\Documents\EAST\Workspaces\jeff930.wsp

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SOUTHERN PINES, NC 28387-4301



**Courtesy Reminder for
Application Serial No: 13/685,544**

Attorney Docket No: 290.1078CON

Customer Number: 33369

Date of Electronic Notification: 10/08/2013

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:

sloan.smith@fasthlaw.com

nan_russell@fasthlaw.com

To view your correspondence online or update your email addresses, please visit us anytime at <https://sportal.uspto.gov/secure/myportal/privatepair>. If you have any questions, please email the Electronic Business Center (EBC) at EBC@uspto.gov or call 1-866-217-9197.



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APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
13/685,544	11/26/2012	Sami Vaarala	290.1078CON

CONFIRMATION NO. 4882

IMPROPER CFR REQUEST

33369
FASTH LAW OFFICES (ROLF FASTH)
26 PINECREST PLAZA, SUITE 2
SOUTHERN PINES, NC 28387-4301



Date Mailed: 10/08/2013

RESPONSE TO REQUEST FOR CORRECTED FILING RECEIPT

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

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

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

/nfissha/

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



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UNITED STATES DEPARTMENT OF COMMERCE
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www.uspto.gov

APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
13/685,544	11/26/2012	Sami Vaarala	290.1078CON

33369
FASTH LAW OFFICES (ROLF FASTH)
26 PINECREST PLAZA, SUITE 2
SOUTHERN PINES, NC 28387-4301

**CONFIRMATION NO. 4882
IMPROPER CPOA LETTER**



Date Mailed: 10/08/2013


NOTICE REGARDING POWER OF ATTORNEY

This is in response to the power of attorney filed 09/27/2013. The power of attorney in this application is not accepted for the reason(s) listed below:

- The power of attorney has not been accepted because the party who is giving power of attorney has not been identified. Power of attorney may only be signed by the applicant for patent (37 CFR 1.42) or the patent owner. A patent owner who was not the applicant must appoint any power of attorney in compliance with 37 CFR 3.71 and 3.73. See 37 CFR 1.32(b)(4).

/nfissha/

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

Application Number 	Application/Control No. 13/685,544	Applicant(s)/Patent under Reexamination VAARALA ET AL.

Document Code - DISQ	Internal Document – DO NOT MAIL
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TERMINAL DISCLAIMER	<input checked="" type="checkbox"/> APPROVED	<input type="checkbox"/> DISAPPROVED
Date Filed : 27 SEPT 2013	This patent is subject to a Terminal Disclaimer	

Approved/Disapproved by:

JAB

**POWER OF ATTORNEY BY APPLICANT
FOR PATENT APPLICATION**

I hereby revoke all previous powers of attorney given in the application identified in the attached transmittal letter. I am the applicant and the assignee to whom the inventors of the identified application are under an obligation to assign.

I hereby authorize Rolf Fasth, the U.S. attorney named herein, to accept and follow instructions from Hoco IP Oy Ab as to any action to be taken in the U.S. Patent and Trademark Office regarding this application without direct communication between Rolf Fasth and the undersigned. In the event of a change in the persons from whom instructions may be taken, Rolf Fasth will be so notified by the undersigned.

I hereby appoint Rolf Fasth, Registration No. 36,959, to prosecute this application, to file a corresponding International application, and to transact all business in the U.S. Patent and Trademark Office connected therewith.

Address all telephone calls to Rolf Fasth at telephone number (910) 687-0001; fax number (910) 295-2152.

Address all correspondence to:

Rolf Fasth
FASTH LAW OFFICES
26 Pinecrest Plaza, Suite 2
Southern Pines, NC 28387-4301

Date	<u>September 17th, 2013</u>
Signature	<u>[Handwritten Signature]</u>
Name:	<u>Robert M. Boush</u>
Title and Company:	<u>CEO</u> , MFM Technologies Oy

Attorney Docket No. 290.1078CON

PATENTS

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of Art Unit 2469

Sami Vaarala, Anti Nuopponen

Serial No. 13/685,544

Filed: 27 November 2012

For: METHOD AND SYSTEM FOR
SENDING A MESSAGE THROUGH
A SECURE CONNECTION

Examiner: Afshawn M. Towfighi

Date: 23 September 2013

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

TERMINAL DISCLAIMER

MPH Technologies Oy, a Finnish corporation, having an address of Keilaranta 14, FIN-02150 Espoo, Finland, is the owner of the entire interest in the above-identified application. The assignment to MPH Technologies Oy was recorded in reel/frame 031250/0063 on 20 September 2013.

MPH Technologies Oy hereby disclaims the terminal part of any patent granted on the above-identified application, which would extend beyond the date 20 years from the filing date of US Patent No. 8,346,949, should this application be allowed so that a patent is granted/issued, and hereby agrees that any patent so granted on the above-identified application shall be enforceable only for and during such period that said patent is commonly owned with US Patent No. 8,346,949 and this agreement is to run

Electronic Acknowledgement Receipt

EFS ID:	16973116
Application Number:	13685544
International Application Number:	
Confirmation Number:	4882
Title of Invention:	METHOD AND SYSTEM FOR SENDING A MESSAGE THROUGH A SECURE CONNECTION
First Named Inventor/Applicant Name:	Sami Vaarala
Customer Number:	33369
Filer:	Rolf Fasth/Sloan Smith
Filer Authorized By:	Rolf Fasth
Attorney Docket Number:	290.1078CON
Receipt Date:	27-SEP-2013
Filing Date:	26-NOV-2012
Time Stamp:	09:13:40
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	Miscellaneous Incoming Letter	TRX.pdf	58908 <small>25638ff44eb2bf8f629e010c062f0d1e108d27b</small>	no	1

Warnings:

Information:

2	Power of Attorney	POA.pdf	720010 d1e06e76d5125247585bb56d3aee26028c760ab4	no	1
Warnings:					
Information:					
3	Miscellaneous Incoming Letter	TERMINAL_DISC.pdf	52329 6e8aa440830f3c44ab21cd590b94303bc3ac68a5	no	2
Warnings:					
Information:					
Total Files Size (in bytes):			831247		
<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>					

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of

Sami Vaarala, Antti Nuopponen

Art Unit 2469
Confirmation No. 4882

Serial No. 13/685,544

CERTIFICATE OF MAILING

Filed: 26 November 2012

I HEREBY CERTIFY THAT THIS PAPER AND THE DOCUMENTS REFERRED TO AS BEING ATTACHED OR ENCLOSED HERewith ARE BEING SUBMITTED ELECTRONICALLY TO THE UNITED STATES PATENT AND TRADEMARK OFFICE ON **27 September 2013**.

For: METHOD AND SYSTEM FOR
SENDING A MESSAGE
THROUGH A SECURE
CONNECTION

/rfasth/

Examiner: Afshawn M. Towfighi

Rolf Fasth
Attorney for Applicant

Date: 27 September 2013

TRANSMITTAL LETTER

ELECTRONIC SUBMISSION

COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, VA 22313-1450

Enclosed for filing in the above-referenced application are the following:

- (X) Power of Attorney
- (X) Terminal Disclaimer
- (X) The Commissioner is hereby authorized to charge any fees which may be required in connection with the filing of this correspondence, or credit over-payment, to Account No. 06-0243.

Respectfully submitted,

FASTH LAW OFFICES


/rfasth/

Rolf Fasth
Registration No. 36,999

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26 Pinecrest Plaza, Suite 2
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Telephone: 910-687-0001
Facsimile: 910-295-2152

Attorney Ref. No. 290.1078CON

Application Number 	Application/Control No. 13/685,544	Applicant(s)/Patent under Reexamination VAARALA ET AL.

Document Code - DISQ	Internal Document – DO NOT MAIL
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TERMINAL DISCLAIMER	<input type="checkbox"/> APPROVED	<input checked="" type="checkbox"/> DISAPPROVED
Date Filed : 9/23/13	This patent is subject to a Terminal Disclaimer	

Approved/Disapproved by:

Td disapproved.

The person who signed the Td does not have POA, 3.73(b) statement and thus not attny of record, see FP 14.29.01 and 14.30.

Also resubmit Td with these papers, NO Fee is required.

Lawana Hixon

Attorney Docket No. 290.1078CON

PATENTS

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of Art Unit 2469

Sami Vaarala, Anti Nuopponen

Serial No. 13/685,544

Filed: 27 November 2012

For: METHOD AND SYSTEM FOR
SENDING A MESSAGE THROUGH
A SECURE CONNECTION

Examiner: Afshawn M. Towfighi

Date: 23 September 2013

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

TERMINAL DISCLAIMER

MPH Technologies Oy, a Finnish corporation, having an address of Keilaranta 14, FIN-02150 Espoo, Finland, is the owner of the entire interest in the above-identified application. The assignment to MPH Technologies Oy was recorded in reel/frame 031250/0063 on 20 September 2013.

MPH Technologies Oy hereby disclaims the terminal part of any patent granted on the above-identified application, which would extend beyond the date 20 years from the filing date of US Patent No. 8,346,949, should this application be allowed so that a patent is granted/issued, and hereby agrees that any patent so granted on the above-identified application shall be enforceable only for and during such period that said patent is commonly owned with US Patent No. 8,346,949 and this agreement is to run

with any patent granted on the above-identified application and to be binding upon the grantor, its successors or assigns.

I am empowered to act on behalf of MPH Technologies Oy.

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.

23 September 2013

Dated

/rfasth/

Rolf Fasth, Reg. No. 36,999
Attorney for Applicants

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of

Sami Vaarala, Antti Nuopponen

Art Unit 2469
Confirmation No. 4882

Serial No. 13/685,544

CERTIFICATE OF MAILING

Filed: 26 November 2012

I HEREBY CERTIFY THAT THIS PAPER AND THE DOCUMENTS REFERRED TO AS BEING ATTACHED OR ENCLOSED HERewith ARE BEING SUBMITTED ELECTRONICALLY TO THE UNITED STATES PATENT AND TRADEMARK OFFICE ON **23 September 2013**.

For: METHOD AND SYSTEM FOR
SENDING A MESSAGE
THROUGH A SECURE
CONNECTION

/rfasth/

Examiner: Afshawn M. Towfighi

Rolf Fasth
Attorney for Applicant

Date: 23 September 2013

TRANSMITTAL LETTER

ELECTRONIC SUBMISSION

COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, VA 22313-1450

Enclosed for filing in the above-referenced application are the following:

- (X) Terminal Disclaimer
- (X) The Commissioner is hereby authorized to charge any fees which may be required in connection with the filing of this correspondence, or credit over-payment, to Account No. 06-0243.

Respectfully submitted,

FASTH LAW OFFICES

/rfasth/

Rolf Fasth
Registration No. 36,999

FASTH LAW OFFICES
26 Pinecrest Plaza, Suite 2
Southern Pines, North Carolina 28387-4301

Telephone: 910-687-0001
Facsimile: 910-295-2152

Attorney Ref. No. 290.1078CON

Electronic Acknowledgement Receipt

EFS ID:	16928204
Application Number:	13685544
International Application Number:	
Confirmation Number:	4882
Title of Invention:	METHOD AND SYSTEM FOR SENDING A MESSAGE THROUGH A SECURE CONNECTION
First Named Inventor/Applicant Name:	Sami Vaarala
Customer Number:	33369
Filer:	Rolf Fasth/Sloan Smith
Filer Authorized By:	Rolf Fasth
Attorney Docket Number:	290.1078CON
Receipt Date:	23-SEP-2013
Filing Date:	26-NOV-2012
Time Stamp:	16:30:45
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	Miscellaneous Incoming Letter	TERMINAL_DISC.pdf	52329 <small>6e8aa440830f3c44ab21cd590b94303bc3a c68a5</small>	no	2

Warnings:

Information:

2	Miscellaneous Incoming Letter	TRX.pdf	58727 6e88bfb8e06d18841d5cf372b3884ea0bb3247e6c	no	1
Warnings:					
Information:					
Total Files Size (in bytes):			111056		
<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>					

Document code: WFEE

United States Patent and Trademark Office
Sales Receipt for Accounting Date: 09/26/2013

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Table with 4 columns: APPLICATION NUMBER (13/685,544), FILING OR 371(C) DATE (11/26/2012), FIRST NAMED APPLICANT (Sami Vaarala), ATTY. DOCKET NO./TITLE (290.1078CON)

CONFIRMATION NO. 4882

PUBLICATION NOTICE

33369
FASTH LAW OFFICES (ROLF FASTH)
26 PINECREST PLAZA, SUITE 2
SOUTHERN PINES, NC 28387-4301



Title:METHOD AND SYSTEM FOR SENDING A MESSAGE THROUGH A SECURE CONNECTION

Publication No.US-2013-0080781-A1

Publication Date:03/28/2013

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 Office of Public Records. The Office of Public Records can be reached by telephone at (703) 308-9726 or (800) 972-6382, by facsimile at (703) 305-8759, by mail addressed to the United States Patent and Trademark Office, Office of Public Records, 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 http://pair.uspto.gov/. 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

APPLICATION AS FILED - PART I			SMALL ENTITY		OR	OTHER THAN SMALL ENTITY	
	(Column 1)	(Column 2)					
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	390
SEARCH FEE (37 CFR 1.16(k), (l), or (m))	N/A	N/A	N/A			N/A	620
EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A	N/A			N/A	250
TOTAL CLAIMS (37 CFR 1.16(i))	4	minus 20 = *			OR	x 62 =	0.00
INDEPENDENT CLAIMS (37 CFR 1.16(h))	1	minus 3 = *				x 250 =	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).						320
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	1580

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

* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.
 ** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".
 *** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3".
 The "Highest Number Previously Paid For" (Total or Independent) is the highest found in the appropriate box in column 1.



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Table with 7 columns: APPLICATION NUMBER, FILING or 371(c) DATE, GRP ART UNIT, FIL FEE REC'D, ATTY. DOCKET NO, TOT CLAIMS, IND CLAIMS. Row 1: 13/685,544, 11/26/2012, 2431, 1710, 290.1078CON, 4, 1

CONFIRMATION NO. 4882

33369
FASTH LAW OFFICES (ROLF FASTH)
26 PINECREST PLAZA, SUITE 2
SOUTHERN PINES, NC 28387-4301

FILING RECEIPT



Date Mailed: 12/20/2012

Receipt is acknowledged of this non-provisional 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 APPLICANT, 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 Filing Receipt Correction. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections 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

Inventor(s)

Sami Vaarala, Espoo, FINLAND;
Antti Nuopponen, Espoo, FINLAND;

Applicant(s)

Sami Vaarala, Espoo, FINLAND;
Antti Nuopponen, Espoo, FINLAND;

Power of Attorney: None

Domestic Priority data as claimed by applicant

This application is a CON of 10/500,930 10/19/2005 PAT 8346949 *
(*)Data provided by applicant is not consistent with PTO records.

Foreign Applications for which priority is claimed (You may be eligible to benefit from the Patent Prosecution Highway program at the USPTO. Please see http://www.uspto.gov for more information.) - None.
Foreign application information must be provided in an Application Data Sheet in order to constitute a claim to foreign priority. See 37 CFR 1.55 and 1.76.

If Required, Foreign Filing License Granted: 12/17/2012

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is US 13/685,544

Projected Publication Date: 03/28/2013

Non-Publication Request: No

Early Publication Request: No

Title

METHOD AND SYSTEM FOR SENDING A MESSAGE THROUGH A SECURE CONNECTION

Preliminary Class

713

PROTECTING YOUR INVENTION OUTSIDE THE UNITED STATES

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

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

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

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

For information on preventing theft of your intellectual property (patents, trademarks and copyrights), you may wish to consult the U.S. Government website, <http://www.stopfakes.gov>. Part of a Department of Commerce initiative, this website includes self-help "toolkits" giving innovators guidance on how to protect intellectual property in specific countries such as China, Korea and Mexico. For questions regarding patent enforcement issues, applicants may call the U.S. Government hotline at 1-866-999-HALT (1-866-999-4158).

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NOT GRANTED

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APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
13/685,544	11/26/2012	Sami Vaarala	290.1078CON

CONFIRMATION NO. 4882

33369
FASTH LAW OFFICES (ROLF FASTH)
26 PINECREST PLAZA, SUITE 2
SOUTHERN PINES, NC 28387-4301

NOTICE



Date Mailed: 12/20/2012

INFORMATIONAL NOTICE TO APPLICANT

Applicant is notified that the above-identified application contains the deficiencies noted below. No period for reply is set forth in this notice for correction of these deficiencies. However, if a deficiency relates to the inventor's oath or declaration, the applicant must file an oath or declaration in compliance with 37 CFR 1.63, or a substitute statement in compliance with 37 CFR 1.64, executed by or with respect to each actual inventor no later than the expiration of the time period set in the "Notice of Allowability" to avoid abandonment. See 37 CFR 1.53(f).

The item(s) indicated below are also required and should be submitted with any reply to this notice to avoid further processing delays.

- A properly executed inventor's oath or declaration has not been received for the following inventor(s):
All

Applicant may submit the inventor's oath or declaration at any time before the Notice of Allowance and Fee(s) Due, PTOL-85, is mailed.

Electronic Acknowledgement Receipt

EFS ID:	14309923
Application Number:	13685544
International Application Number:	
Confirmation Number:	4882
12/17/2012 CCETIN 00000019 060243 13685544 01 FC:1051 130.00 DA Title of Invention:	METHOD AND SYSTEM FOR SENDING A MESSAGE THROUGH A SECURE CONNECTION
First Named Inventor/Applicant Name:	Sami Vaarala
Customer Number:	33369
Filer:	Rolf Fasth/Sloan Smith
Filer Authorized By:	Rolf Fasth
Attorney Docket Number:	290.1078CON
Receipt Date:	26-NOV-2012
Filing Date:	
Time Stamp:	19:42:07
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	Deposit Account
Payment was successfully received in RAM	\$1260
RAM confirmation Number	9362
Deposit Account	060243
Authorized User	
The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows: Charge any Additional Fees required under 37 C.F.R. Section 1.16 (National application filing, search, and examination fees) Charge any Additional Fees required under 37 C.F.R. Section 1.17 (Patent application and reexamination processing fees)	

Electronic Acknowledgement Receipt

EFS ID:	14309923
Application Number:	13685544
International Application Number:	
Confirmation Number:	4882
12/17/2012 CCETIN 00000032 060243 13685544 01 FC:1081 320.00 DA Title of Invention:	METHOD AND SYSTEM FOR SENDING A MESSAGE THROUGH A SECURE CONNECTION
First Named Inventor/Applicant Name:	Sami Vaarala
Customer Number:	33369
Filer:	Rolf Fasth/Sloan Smith
Filer Authorized By:	Rolf Fasth
Attorney Docket Number:	290.1078CON
Receipt Date:	26-NOV-2012
Filing Date:	
Time Stamp:	19:42:07
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	Deposit Account
Payment was successfully received in RAM	\$1260
RAM confirmation Number	9362
Deposit Account	060243
Authorized User	
The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows: Charge any Additional Fees required under 37 C.F.R. Section 1.16 (National application filing, search, and examination fees) Charge any Additional Fees required under 37 C.F.R. Section 1.17 (Patent application and reexamination processing fees)	

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

UTILITY PATENT APPLICATION TRANSMITTAL (Only for new nonprovisional applications under 37 CFR 1.53(b))	Attorney Docket No.	290.1078CON
	First Inventor	Sami Vaarala
	Title	METHOD AND SYSTEM FOR SENDING A MESSAGE THROUGH A SECURE CONNEC
	Express Mail Label No.	Electronic Filing

<p style="text-align: center;">APPLICATION ELEMENTS</p> <p style="text-align: center;"><i>See MPEP chapter 600 concerning utility patent application contents.</i></p> <p>1. <input type="checkbox"/> Fee Transmittal Form. (PTO/SB/17 or equivalent)</p> <p>2. <input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27.</p> <p>3. <input checked="" type="checkbox"/> Specification. [Total Pages <u>72</u>] Both the claims and abstract must start on a new page (For information on the preferred arrangement, see MPEP § 608.01(a))</p> <p>4. <input checked="" type="checkbox"/> Drawing(s). (35 U.S.C. 113) [Total Sheets <u>2</u>]</p> <p>5. <input checked="" type="checkbox"/> Inventor's Oath or Declaration. [Total Sheets _____] (including substitute statements under 37 CFR 1.64 and assignments serving as an oath or declaration under 37 CFR 1.63(e))</p> <p>a. <input type="checkbox"/> Newly executed (original or copy)</p> <p>b. <input type="checkbox"/> A copy from a prior application (37 CFR 1.63(d))</p> <p>6. <input checked="" type="checkbox"/> Application Data Sheet. *See Note below. See 37 CFR 1.76 (PTO/AIA/14 or equivalent)</p> <p>7. <input type="checkbox"/> CD-ROM or CD-R. in duplicate, large table or Computer Program (Appendix)</p> <p><input type="checkbox"/> Landscape Table on CD</p> <p>8. Nucleotide and/or Amino Acid Sequence Submission. (if applicable, items a. – c. are required)</p> <p>a. <input type="checkbox"/> Computer Readable Form (CRF)</p> <p>b. <input type="checkbox"/> Specification Sequence Listing on:</p> <p>i. <input type="checkbox"/> CD-ROM or CD-R (2 copies); or</p> <p>ii. <input type="checkbox"/> Paper</p> <p>c. <input type="checkbox"/> Statements verifying identity of above copies</p>	<p>ADDRESS TO: Commissioner for Patents P.O. Box 1450 Alexandria VA 22313-1450</p> <p style="text-align: center;">ACCOMPANYING APPLICATION PARTS</p> <p>9. <input type="checkbox"/> Assignment Papers. (cover sheet & document(s)) Name of Assignee _____</p> <p>10. <input type="checkbox"/> 37 CFR 3.73(c) Statement. <input type="checkbox"/> Power of Attorney. (when there is an assignee)</p> <p>11. <input type="checkbox"/> English Translation Document. (if applicable)</p> <p>12. <input type="checkbox"/> Information Disclosure Statement. (PTO/SB/08 or PTO-1449) <input type="checkbox"/> Copies of citations attached</p> <p>13. <input type="checkbox"/> Preliminary Amendment.</p> <p>14. <input type="checkbox"/> Return Receipt Postcard. (MPEP § 503) (Should be specifically itemized)</p> <p>15. <input type="checkbox"/> Certified Copy of Priority Document(s). (if foreign priority is claimed)</p> <p>16. <input type="checkbox"/> Nonpublication Request. Under 35 U.S.C. 122(b)(2)(B)(i). Applicant must attach form PTO/SB/35 or equivalent.</p> <p>17. <input checked="" type="checkbox"/> Other: Marked-up copy of Specification</p>
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***Note:** (1) Benefit claims under 37 CFR 1.78 and foreign priority claims under 1.55 **must** be included in an Application Data Sheet (ADS).
(2) For applications filed under 35 U.S.C. 111, the application must contain an ADS specifying the applicant if the applicant is an assignee, person to whom the inventor is under an obligation to assign, or person who otherwise shows sufficient proprietary interest in the matter. See 37 CFR 1.46(b).

18. CORRESPONDENCE ADDRESS

The address associated with Customer Number: 33369 OR Correspondence address below

Name		Address	
City	State	Zip Code	
Country	Telephone	Email	

Signature	/rfasth/	Date	26 November 2012
Name (Print/Type)	Rolf Fasth	Registration No. (Attorney/Agent)	36999

This collection of information is required by 37 CFR 1.53(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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

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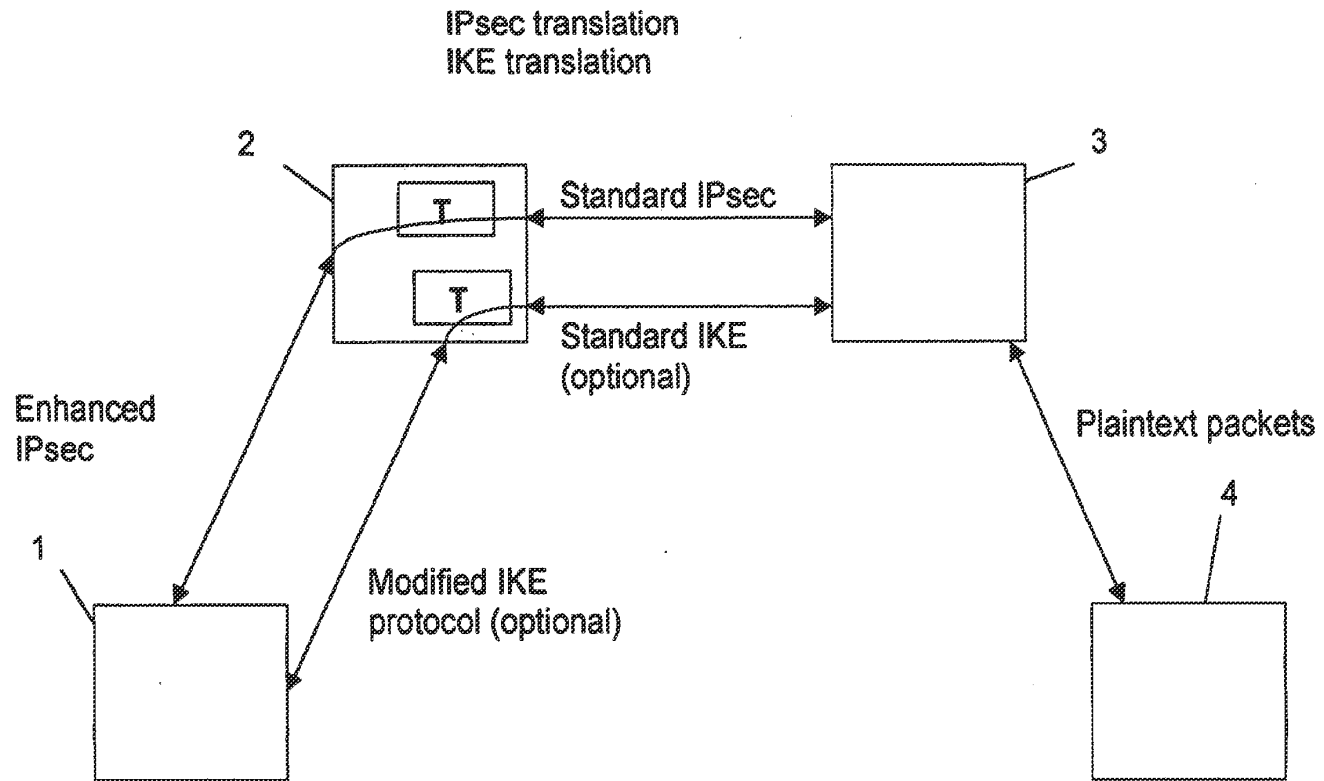


FIG. 1

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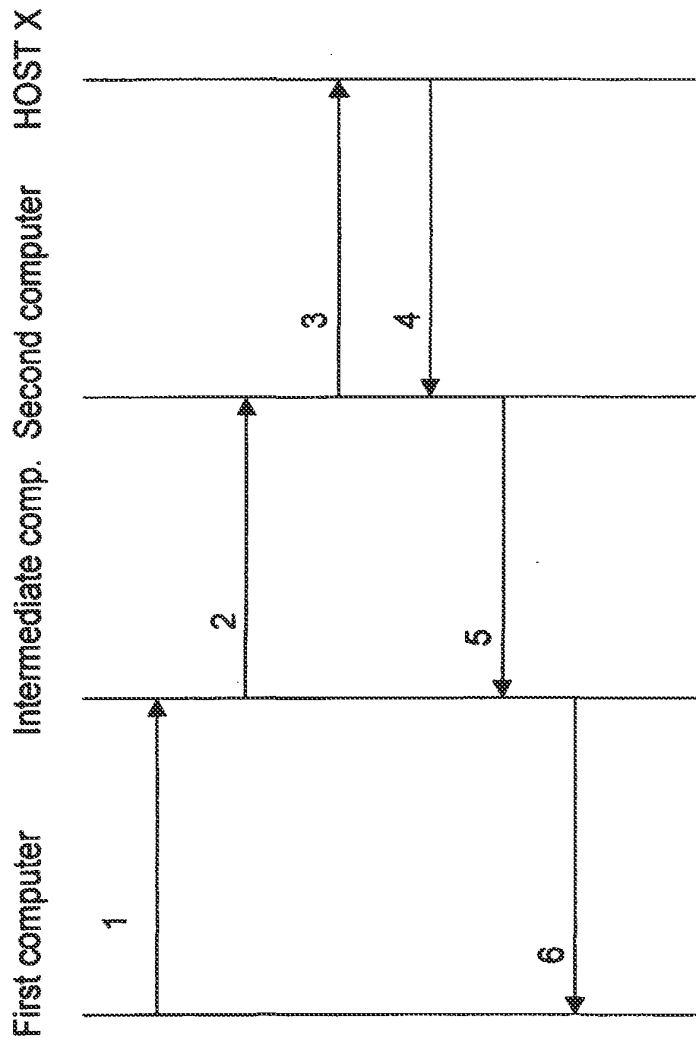


FIG. 2

c-addr-1	c-addr-2	c-SPI-1	c-SPI-2	s-addr-2	s-addr-3	s-SPI-2	s-SPI-3
195.1.2.3	212.90.65.1	0x80000001	0x12341234	212.90.65.1	103.6.5.4	0x1230012	0x56785678
...

FIG. 3

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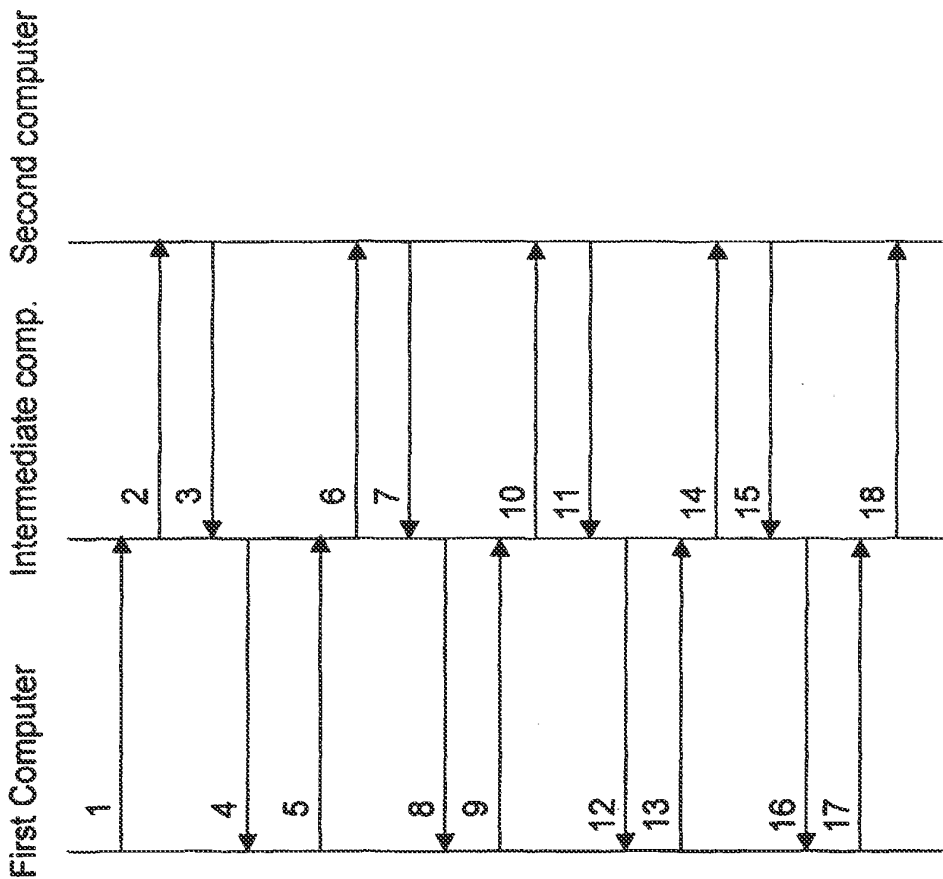


FIG. 4

Mapping field	Stage 1	Stage 2	Stage 3	Stage 4
c-addr-1	195.1.2.3	195.1.2.3	195.1.2.3	195.1.2.3
c-addr-2	212.90.65.1	212.90.65.1	212.90.65.1	212.90.65.1
c-icky	CKY1	CKY1	CKY1	CKY1
c-rcky	0	0	0	CKY4
c-userid	joe@netseal.com	joe@netseal.com	joe@netseal.com	joe@netseal.com
s-addr-2	n/a	212.90.65.1	212.90.65.1	212.90.65.1
s-addr-3	n/a	103.6.5.4	103.6.5.4	103.6.5.4
s-icky	n/a	CKY2	CKY2	CKY2
s-rcky	n/a	0	CKY3	CKY3

FIG. 5

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Identification type	Identification value	SGW address
User@Fully-Qualified-Domain-Name	*.smith@netseal.com	123.1.2.3
user@Fully-Qualified-Domain-Name	*@netseal.com	103.6.5.4
Distinguished Name	"CN=Sami Vaarala, DC=netseal, DC=com"	122.4.3.2
Fully-Qualified-Domain-Name	host4.roammate.com	123.3.2.1
Employee number and company	"190170 / NetSeal Technologies"	123.4.3.2
...

FIG. 6

METHOD FOR IDENTIFYING, SELECTING AND MATCHING COLORS**PRIOR APPLICATION**

This application is a U.S. Continuation Patent
5 Application based on US Patent Application Serial No.
10/500,930, filed 19 October 2005.

TECHNICAL FIELD

The method and system of the invention are intended to
10 secure connections in telecommunication networks.
Especially, it is meant for wireless Internet Service
Provider (ISP) connections.

TECHNICAL BACKGROUND

An internetwork is a collection of individual networks
15 connected with intermediate networking devices that
function as a single large network. Different networks can
be interconnected by routers and other networking devices
to create an internetwork.

A local area network (LAN) is a data network that covers a
20 relatively small geographic area. It typically connects
workstations, personal computers, printers and other
devices. A wide area network (WAN) is a data communication

network that covers a relatively broad geographic area.

Wide area networks (WANS) interconnect LANs across normal telephone lines and, for instance, optical networks; thereby interconnecting geographically disposed users.

5 There is a need to protect data and resources from disclosure, to guarantee the authenticity of data, and to protect systems from network based attacks. More in detail, there is a need for confidentiality (protecting the contents of data from being read) integrity (protecting the
10 data from being modified, which is a property that is independent of confidentiality), authentication (obtaining assurance about the actual sender of data), replay protection (guaranteeing that data is fresh, and not a copy of previously sent data), identity protection (keeping the
15 identities of parties exchanging data secret from outsiders), high availability, i.e. denial-of-service protection (ensuring that the system functions even when under attack) and access control. IPSec is a technology providing most of these, but not all of them. (In
20 particulars identity protection is not completely handled by IPSec, and neither is denial-of-service protection.)

The IP security protocols (IPSec) provides the capability to secure communications between arbitrary hosts, e.g.

across a LAN, across private and public wide area networks (WANs) and across the internet IPsec can be used in different ways, such as for building secure virtual private networks, to gain a secure access to a company network, or
5 to secure communication with other organisations, ensuring authentication and confidentiality and providing a key exchange mechanism. IPsec ensures confidentiality integrity, authentication, replay protection, limited traffic flow confidentiality, limited identity protection,
10 and access control based on authenticated identities. Even if some applications already have built in security protocols, the use of IPsec further enhances the security.

IPsec can encrypt and/or authenticate traffic at IP level. Traffic going in to a WAN is typically compressed and
15 encrypted and traffic coming from a WAN is decrypted and decompressed. IPsec is defined by certain documents, which contain rules for the IPsec architecture. The documents that define IPsec, are, for the time being, the Request For Comments (RFC) series of the Internet Engineering Task
20 Force (IETF), in particular, RFCs 2401-2412.

Two protocols are used to provide security at the IP layer; an authentication protocol designated by the header of the protocol, Authentication Header (AH), and a combined

encryption/authentication protocol designated by the format
of the packet for that protocol, Encapsulating Security
Payload (ESP) AH and ESP are however similar protocols,
both operating by adding a protocol header. Both AH and ESP
5 are vehicles for access control based on the distribution
of cryptographic keys and the management of traffic flows
related to these security protocols.

Security association (SA) is a key concept in the
authentication and the confidentiality mechanisms for IP. A
10 security association is a one-way relationship between a
sender and a receiver that offers security services to the
traffic carried on it if a secure two-way relationship is
needed, then two security associations are required. If ESP
and AH are combined, or if ESP and/or AH are applied more
15 than once, the term SA bundle is used, meaning that two or
more SAs are used. Thus, SA bundle refers to one or more
SAs applied in sequence, e.g. by first performing an ESP
protection, and then an AH protection. The SA bundle is the
combination of all SAs used to secure a packet.

20 The term IPsec connection is used in what follows in place
of an IPsec bundle of one or more security associations, or
a pair of IPsec bundles—one bundle for each direction—of
one or more security associations. This term thus covers

both unidirectional and bi-directional traffic protection. There is no implication of symmetry of the directions, i.e., the algorithms and IPsec transforms used for each direction may be different.

5 A security association is uniquely identified by three parameters. The first one, the Security Parameters Index (SPI), is a bit string assigned to this SA. The SPI is carried in AH and ESP headers to enable the receiving system to select the SA under which a received packet will
10 be processed. IP destination address is the second parameter, which is the address of the destination end point of the SA, which may be an end user system or a network system such as a firewall or a router. The third parameter, the security protocol identifier indicates
15 whether the association is an AH or ESP security association.

In each IPsec implementation, there is a nominal security association data base (SADB) that defines the parameters associated with each SA. A security association is normally
20 defined by the following parameters. The Sequence Number Counter is a 32-bit value used to generate the sequence number field in AH or ESP headers. The Sequence Counter Overflow is a flag indicating whether overflow of the

sequence number counter should generate an auditable event and prevent further transmission of packets on this SA. An Anti-Replay Window is used to determine whether an inbound AH or ESP packet is a replay. AH information involves

5 information about the authentication algorithm, keys and related parameters being used with AH. ESP information involves information of encryption and authentication algorithms, keys, initialisation vectors, and related parameters being used with IPsec. AH information consists

10 of the authentication algorithm, keys and related parameters being used with AH. ESP information consists of encryption and authentication algorithms, keys, cryptographic initialisation vectors and related parameters being used with ESP. The sixth parameter, Lifetime of this

15 Security Association, is a time-interval and/or byte-count after which this SA must be replaced with a new SA (and new SPI) or terminated plus an indication of which of these actions should occur. IPsec Protocol Mode is either tunnel or transport mode. Maximum Transfer Unit (MTU), an optional

20 feature, defines the maximum size of a packet that can be transmitted without fragmentation. Optionally an MTU discovery protocol may be used to determine the actual MTU for a given route, however, such a protocol is optional.

Both AH and ESP support two modes used, transport and tunnel mode.

Transport mode provides protection primarily for upper layer protocols and extends to the payload of an IP packet

5 Typically, transport mode is used for end-to-end communication between two hosts. Transport mode may be used in conjunction with a tunnelling protocol, other than IPsec tunnelling, to provide a tunnelling capability.

Tunnel mode provides protection to the entire IP packet and
10 is usually used for sending messages through more than two components, although tunnel mode may also be used for end-to-end communication between two hosts. Tunnel mode is often used when one or both ends of a SA is a security gateway, such as a firewall or a router that implements
15 IPsec. With tunnel mode, a number of hosts on networks behind firewalls may engage in secure communications without implementing IPsec. The unprotected packets generated by such hosts are tunnelled through external networks by tunnel mode SAs set up by the IPsec software in
20 the firewall or secure router at boundary of the local network.

To achieve this, after the AH or ESP fields are added to the IP packet, the entire packet plus security fields are treated as the payload of a new outer IP packet with a new outer IP header. The entire original, or inner, packet

5 travels through a tunnel from one point of an IP network to another: no routers along the way are able to examine the inner IP packet. Because the original packet is encapsulated, the new larger packet may have totally different source and destination addresses, adding to the

10 security. In other words, the first step in protecting the packet using tunnel mode is to add a new IP header to the packet; thus the "IP|payload" packet becomes "IP|IP|payload". The next step is to secure the packet using ESP and/or AH. In case of ESP, the resulting packet

15 is "IP|ESP|IP|payload". The whole inner packet is covered by the ESP and/or AH protection. AH also protects parts of the outer header, in addition to the whole inner packet.

The IPsec tunnel mode operates e.g. in such a way that if a host on a network generates an IP packet with a destination

20 address of another host on another network, the packet is routed from the originating host to a security gateway (SGW), firewall or other secure router at the boundary of the first network. The SGW or the like filters all outgoing

packets to determine the need for IPSec processing. If this packet from the first host to another host requires IPSec, the firewall performs IPSec processing and encapsulates the packet in an outer IP header. The source IP address of this
5 outer IP header is this firewall and the destination address may be a firewall that forms the boundary to the other local network. This packet is now routed to the other host's firewall with intermediate routers examining only the outer IP header. At the other host firewall, the outer
10 IP header is stripped off and the inner packet is delivered to the other host.

ESP in tunnel mode encrypts and optionally authenticates the entire inner IP packet, including the inner IP header. AH in tunnel mode authenticates the entire inner IP packet,
15 including the inner IP header, and selected portions of the outer IP header.

The key management portion of IPSec involves the determination and distribution of secret keys. The default automated key management protocol for IPSec is referred to
20 as ISAKMP/Oakley and consists of the Oakley key determination protocol and Internet Security Association and Key Management Protocol (ISAKMP). Internet key exchange (IKE) is a newer name for the ISAKMP/Oakley protocol. IKE

is based on the Diffie-Hellman algorithm and supports RSA signature authentication among other modes. IKE is an extensible protocol, and allows future and vendor-specific features to be added without compromising functionality.

5 IPsec has been designed to provide confidentiality, integrity, and replay protection for IP packets. However, IPsec is intended to work with static network topology, where hosts are fixed to certain subnetworks. For instance, when an IPsec tunnel has been formed by using Internet Key
10 Exchange (IKE) protocol, the tunnel endpoints are fixed and remain constant. If IPsec is used with a mobile host, the IKE key exchange will have to be redone from every new visited network. This is problematic, because IKE key exchanges involve computationally expensive Diffie-Hellman
15 key exchange algorithm calculations and possibly RSA calculations. Furthermore, the key exchange requires at least three round trips (six messages) if using the IKE aggressive mode followed by IKE quick mode, and nine messages if using IKE main mode followed by IKE quick mode.
20 This may be a big problem in high latency networks, such as General Packet Radio Service (GPRS) regardless of the computational expenses.

In this text, the term mobility and mobile terminal does not only mean physical mobility, instead the term mobility is in the first hand meant moving from one network to another, which can be performed by a physically fixed terminal as well.

The problem with standard IPsec is thus that it has been designed for static connections. For instance, the end points of an IPsec tunnel mode SA are fixed. There is also no method for changing any of the parameters of an SA, other than by establishing a new SA that replaces the previous one. However, establishing SAs is costly in terms of both computation time and network latency.

An example of a specific scenario where these problems occur is described next in order to illustrate the problem.

In the scenario, there is a standard IPsec security gateway, which is used by a mobile terminal e.g. for remote access. The mobile terminal is mobile in the sense that it changes its network point of attachment frequently. A mobile terminal can in this text thus be physically fixed or mobile. Because it may be connected to networks administered by third parties, it may also have a point of attachment that uses private addresses—i.e., the network is

behind a router that performs network address translation (NAT). In addition, the networks used by the mobile terminal for access may be wireless, and may have poor quality of service in terms of throughput and e.g. packet drop rate.

Standard IPsec does not work well in the scenario. Since IPsec connections are bound to fixed addresses, the mobile terminal must establish a new IPsec connection from each point of attachment. If an automated key exchange protocol, such as IKE, is used, setting up a new IPsec connection is costly in terms of computation and network latency, and may require a manual authentication phase (for instance, a one-time password). If IPsec connections are set up manually, there is considerable manual work involved in configuring the IPsec connection parameters.

Standard IPsec does e.g. not work through NAT devices at the moment. A standard IPsec NAT traversal protocol is currently being specified, but the security gateway in the scenario might not support an IPsec protocol extended in this way. Furthermore, the current IPsec NAT traversal protocols are not well suited to mobility.

There are no provisions for improving quality of service over wireless links in the standard IPsec protocol. If the access network suffers from high packet drop rates, the applications running in the mobile host and a host that the mobile terminal is communicating with will suffer from packet drops.

A known method of solving some of these problems is based on having an intermediate host between the mobile terminal and the IPsec security gateway. The intermediate host might be a Mobile IP home agent, that provides mobility for the connection between the mobile terminal and the home agent, while the connection from the mobile node to the security gateway is an ordinary IPsec connection. In this case, packets sent by an application in the mobile client are first processed by IPsec, and then by Mobile IP.

In the general case, this implies both Mobile IP and IPsec header fields for packets exchanged by the mobile terminal and the home agent. The Mobile IP headers are removed by the home agent prior to delivering packets to the security gateway, and added when delivering packets to the mobile terminal. Because of the use of two tunnelling protocols (Mobile IP and IPsec tunnelling), the solution is referred to as "double tunnelling" in this document.

The above method solves the mobility problem, at the cost of adding extra headers to packets. This may have a significant impact on networks that have low throughput such as the General Packet Radio System (GPRS).

5 Another known method is again to use an intermediate host between the mobile client and the IPsec security gateway. The intermediate host has an IPsec implementation that may support NAT traversal, and possibly some proprietary extensions for improving quality of service of the access
10 network, for instance.

The mobile host would now establish an IPsec connection between itself and the intermediate host, and would also establish an IPsec connection between itself and the IPsec security gateway. This solution is similar to the first
15 known method, except that two IPsec tunnels are used. It solves a different set of problems—for instance, NAT traversal—but also adds packet size overhead because of double IPsec tunnelling.

A third known method is to use a similar intermediate host
20 as in the second known method, but establish an IPsec connection between the mobile terminal and the intermediate host, and another, separate IPsec connection between the

intermediate host and the security gateway. The IPSec connection between the mobile terminal and the intermediate host may support NAT traversal, for instance, while the second IPSec connection does not need to.

5 When packets are sent by an application in the mobile terminal, the packets are IPSec-processed using the IPSec connection shared by the mobile terminal and the intermediate host. Upon receiving these packets, the intermediate host undoes the IPSec-processing. For
10 instance, if the packet was encrypted, the intermediate host decrypts the packet. The original packet would now be revealed in plaintext to the intermediate host. After this, the intermediate host IPSec-processes the packet using the IPSec connection shared by the intermediate host and the
15 security gateway, and forwards the packet to the security gateway.

This solution allows the use of an IPSec implementation that support NAT traversal, and possibly a number of other (possibly vendor specific) improvements, addressing
20 problems such as the access network quality of service variations. Regardless of these added features, the IPSec security gateway remains unaware of the improvements, and is not required to implement any of the protocols involved

in improving service. However, the solution has a major drawback: the IPsec packets are decrypted in the intermediate host, and thus possibly sensitive data is unprotected in the intermediate host.

5 Consider a business scenario where a single intermediate host provides improved service to a number of separate customer networks, each having its own standard IPsec security gateway. Having decrypted packets of various customer networks in plaintext form in the intermediate
10 host is clearly a major security problem.

To summarise, the known solutions either employ extra tunnelling, causing extra packet size overhead, or use separate tunnels, causing potential security problems in the intermediate host(s) that terminate such tunnels.

15 **THE OBJECT OF THE INVENTION**

The object of the invention is to develop a method for forwarding secure messages between two computers, especially, via an intermediate computer by avoiding the above mentioned disadvantages.

Especially, the object of the invention is to forward secure messages in a way that enables changes to be made in the secure connection

SUMMARY OF THE INVENTION

5 The method and system of the invention enable secure forwarding of a message from a first computer to a second computer via an intermediate computer in a telecommunication network. It is mainly characterized in that a message is formed in the first computer or in a
10 computer that is served by the first computer, and in the latter case, sending the message to the first computer. In the first computer, a secure message is then formed by giving the message a unique identity and a destination address. The message is sent from the first computer to the
15 intermediate computer, whereafter said destination address and the unique identity are used to find an address to the second computer. The current destination address is substituted with the found address to the second computer, and the unique identity is substituted with another unique
20 identity. Then the message is forwarded to the second computer.

Preferably, the first computer processes the formed message using a security protocol and encapsulates the message at least in an outer IP header. The outer IP header source address is the current address of the first computer, while
5 the destination address is that of the intermediate computer. The message is then sent to the intermediate computer, which matches the outer IP header address fields together with a unique identifier used by the security protocol, and performs a translation of the outer addresses
10 and the unique identity used by the security protocol. The translated packet is then sent to the second computer, which processes it using the standard security protocol in question. In the method of the invention, there is no extra encapsulation overhead as in the prior art methods. Also,
15 the intermediate computer does not need to undo the security processing, e.g. decryption, and thus does not compromise security as in the prior art methods.

Corresponding steps are performed when the messages are sent in the reverse direction, i.e. from the second
20 computer to the first computer.

Preferably, the secure message is formed by making use of the IPSec protocols, whereby the secure message is formed by using an IPsec connection between the first computer and

the intermediate computer. The message sent from the first computer contains message data, an inner IP header containing actual sender and receiver addresses, an outer IP header containing the addresses of the first computer and the intermediate computer, a unique identity, and other security parameters. The unique identity is one or more SPI values and the other security parameters contain e.g. the IPsec sequence number(s). The number of SPI values depends on the SA bundle size (e.g. ESP+AH bundle would have two SPI values). In the following, when an SA is referred to, the same applies to an SA bundle. The other related security parameters, containing e.g. the algorithm to be used, a traffic description, and the lifetime of the SA, are not sent on the wire. Only SPI and sequence number are sent for each IPsec processed header (one SPI and one sequence number if e.g. ESP only is used; two SPIs and two sequence numbers if e.g. ESP+AH is used, etc.).

Thus, the unsecured data packet message is formed by the sending computer, which may or may not be the first computer. The IP header of this packet has IP source and destination address fields (among other things). The packet is encapsulated e.g. wrapped inside a tunnel, and the resulting packet is secured. The secured packet has a new

outer IP header, which contains another set of IP source and destination addresses (in the outer header--the inner header is untouched), i.e. there are two outer addresses (source and destination) and two inner addresses. The
5 processed packet has a unique identity, the IPsec SPI value(s).

An essential idea of the invention is to use the standard protocol (IPSec) between the intermediate computer and the second computer and an "enhanced IPSec protocol" between
10 the first computer and the intermediate computer. IPSec-protected packets are translated by the intermediate computer, without undoing the IPSec processing. This avoids both the overhead of double tunneling and the security problem involved in using separate tunnels.

15 The translation is performed e.g. by means of a translation table stored at the intermediate computer. The outer IP header address fields and/or the SPI-values are changed by the intermediate computer so that the message can be forwarded to the second computer.

20 By modifying the translation table and parameters associated to a given translation table entry, the properties of the connection between the first and the

intermediate computers can be changed without establishing a new IPsec connection, or involving the second computer in any way.

One example of a change in the SA between the first
5 computer and the intermediate computer is the change of addresses for enabling mobility. This can be accomplished in the invention simply by modifying the translation table entry address fields. Signaling messages may be used to request such a change. Such signalling messages may be
10 authenticated and/or encrypted, or sent in plaintext. One method of doing authentication and/or encryption is to use an IPsec connection between the first computer and the intermediate computer. The second computer is unaware of this IPsec connection, and does not need to participate in
15 the signalling protocol in any way. Several other methods of signalling exist, for instance, the IKE key exchange protocol maybe extended to carry such signalling messages.

In the signalling, e.g. a registration request is sent from the first computer to the intermediate computer which
20 causes the intermediate computer to modify the addresses in the mapping table and thus, the intermediate computer can identify the mobile next time a message is sent.

Preferably, as a result of a registration request, a reply

registration is sent from the intermediate computer back to the first computer.

Other examples of possible modifications to the SA--or in general, the packet processing behaviour--between the first
5 computer and the intermediate computer are the following.

One example is the first computer and the intermediate computer performs some sort of retransmission protocol that ensures that the IPsec protected packets are not dropped in the route between the first and the intermediate computer.
10 This may have useful applications when the first computer is connected using a network access method that has a high packet drop rate--for instance, GPRS.

Such a protocol can be easily based on e.g. IPsec sequence number field and the replay protection window, which
15 provide a way to detect that packet(s) have been lost. When a receiving host detects missing packets, it can send a request message for those particular packets. The request can of course be piggy-backed on an existing data packet that is being sent to the other host. Another method of
20 doing the retransmissions may be based on using an extra protocol inside which the IPsec packets are wrapped for transmission between the first and intermediate computer.

In any case, the second computer remains unaware of such a retransmission protocol.

Another example is performing a Network Address Translation (NAT) traversal encapsulation between the first and the
5 intermediate computer. This method could be based on e.g. using UDP encapsulation for transmission of packets between the first and the intermediate computer. The second computer remains unaware about this processing and does not even need to support NAT traversal at all. This is
10 beneficial because there are several existing IPSec products that have no support for NAT traversal.

The system of the invention is a telecommunication network for secure forwarding of messages and comprises at least a first computer, a second computer and an intermediate
15 computer. It is characterized in that the first and the second computers have means to perform IPSec processing, and the intermediate computer have means to perform IPSec translation and possibly key exchange protocol, such as IKE, translation, preferably by means of mapping tables.
20 The intermediate computer may perform IPSec processing related to other features, such as mobility signalling described above or other enhancements.

The IPsec translation method is independent of the key exchange translation method. Also manual keying can be used instead of automatic keying. If automatic keying is used, any key exchange protocol can be modified for that purpose; however, the idea is to keep the second computer unaware of the interplay of the first and the intermediate computer.

An automatic key exchange protocol may be used in the invention in several ways. The essential idea is that the second computer sees a standard key exchange protocol run, while the first and the intermediate computer perform a modified key exchange. The modified key exchange protocol used between the first and the intermediate computer ensures that the IPsec translation table and other parameters required by the invention are set up as a side-effect of the key exchange protocol. One such modified protocol is presented in the application for the IKE key exchange protocol.

Each translation table consists of entries that are divided into two partitions. The first partition contains information fields related to the connection between the first computer and the intermediate computer, while the second partition contains information fields related to the

connection between the intermediate computer and the second computer.

The translation occurs by identifying the translation table entry by comparing against one partition, and mapping into
5 the other. For traffic that is flowing from the first computer towards the second computer, through the intermediate computer, the entry is found by comparing the received packet against entries in the first partition, and then translating said fields using information found in the
10 second partition of the same entry. For traffic flowing in the opposite direction, the second partition is used for finding the proper translation table entry, and the first partition for translating the packet fields.

The IPsec translation table partitions consist of the
15 following information: the IP local address and the IP remote address (tunnel endpoint addresses) and SPIs for sending and receiving data.

As mentioned, a translation table entry consists of two such partitions, one for communication between first
20 computer and the intermediate computer, and another for communication between the intermediate computer and the second computer.

The invention described solves the above problems of prior art. The solution is based on giving the first computer, e.g. if it is mobile, an appearance of a standard computer for the second computer. Thus, the second computer will
5 believe it is talking to a standard IPsec host, while the intermediate computer and the second computer will work together using a modified protocol, for instance a slightly modified IPsec and IKE that helps to accomplish this goal. There are, however, several other control protocols that
10 could conceivably be used between the first and the intermediate computer.

In the following, the invention is described more in detail by using figures by means of some embodiment examples to carry out the invention. The invention is not restricted to
15 the details of the figures and accompanying text, or any existing protocols, such as the currently standardised IPsec or IKE.

Especially, the invention can be concerned with other kinds of telecommunication networks wherein the method of the
20 invention can be applied than that of the figures.

BRIEF DESCRIPTION OF THE DRAWINGS

FIG. 1 illustrates an example of a telecommunication network of the invention.

FIG. 2 describes generally an example of the method of the invention.

5 FIG. 3 illustrates an example of an IPsec translation table used by the intermediate computer to change the outer IP address and SPI value.

FIG. 4 describes a detailed example of how the SA is formed in the invention.

10 FIG. 5 illustrates an example of translation tables for the modified key exchange of the invention.

FIG. 6 shows a mapping table for identification values of the user Security Gateway (SGW) addresses.

DETAILED DESCRIPTION OF THE INVENTION

15 An example of a telecommunication network of the invention is illustrated in FIG. 1, comprising a first computer, here a client computer **1** served by an intermediate computer, here as a server **2**, and a host computer **4**, that is served by the second computer, here a security gateway (SGW) **3**.

20 The security gateway supports the standard IPsec protocol

and optionally the IKE key exchange protocol. The client computer and the server computer support a modified IPsec and IKE protocol.

The invention is not restricted to the topology of FIG. 1.

5 In other embodiments, the first computer may e.g. be a router; or there might e.g. not be a host behind the second computer (in which case the first and the second computer are talking to each other directly), etc.

The IPsec translations taking place in the scenario of
10 FIGS. 1, 2, and 3 are discussed first. The IPsec connections (such as SAs) in the scenario may be established manually, or using some key exchange protocol, such as the Internet Key Exchange (IKE). To illustrate how a key exchange protocol would be used in the scenario of
15 FIG. 1, a modified IKE protocol based on IKE translation is also presented later.

In the invention, an IPsec connection is shared by the first computer and the second computer, while the intermediate computer holds information required to perform
20 address and IPsec SPI translations for the packets. These translations accomplish the effect of "double tunnelling" (described in the technical background section), but with

the method of the invention the confidentiality of the packets is not compromised, while simultaneously having no extra overhead when compared to standard IPsec. The intermediate computer does not know the cryptographic keys used to encrypt and/or authenticate the packets, and can thus not reveal their contents.

The advantage of the invention is that the logical IPsec connection shared by the first and the second computer can be enhanced by the first and the intermediate computer without involvement of the second computer. In particular the so-called "ingress filtering" performed by some routers does not pose any problems when translations of addresses are used. In the example presented, each host also manages its own IPsec SPI space independently.

In the example of FIG. 1, an IPsec connection is formed between the client computer **1** (the first computer) and the security gateway **3** (the second computer). To create an IPsec tunnel, a SA (or usually a SA bundle) is formed between the respective computers with a preceding key exchange. The key exchange between the first and the second computer can take place manually or it can be performed with an automatic key exchange protocol such as the IKE protocol. For performing said key exchange, a standard IKE

protocol is used between the server **2** and the security gateway **3**, and a modified IKE protocol is used between the client computer **1** and the server **2**. An example of a modified IKE protocol that can be used in the invention is described in connection with FIG. 4.

Messages to be sent to the host terminal **4** from the client computer **1** are first sent to the server **2**, wherein an IPSec translation and an IKE translation takes place. After that the message can be sent to the security gateway **3**, which sends the message further in plain text to the host terminal **4**.

The method of the invention, wherein messages in packet form are sent by routing to the end destination, is generally described in connection with FIG. 2. It is assumed in the following description that the IPSec connection between the first and second computer already is formed. The IPSec connection can be set up manually or automatically by e.g. an IKE exchange protocol which is described later.

FIG. 2 illustrates the sequence of events that take place when the first computer, corresponding to the mobile terminal in FIG. 1, sends a packet to a destination host,

labelled X in the figure, and when the host X sends a packet to the mobile terminal.

IP packets consist of different parts, such as a data payload and protocol headers. The protocol headers in turn
5 consist of fields.

In step 1 of FIG. 2, the first computer, e.g. a mobile terminal, forms an IP packet that is to be sent to host X. Typically, this packet is created by an application running on the mobile terminal. The IP packet source address is the
10 address of the mobile terminal, while the destination address is host X.

The packet is processed using an IPsec tunnel mode SA, which encapsulates the IP packet securely. The example assumes that IPsec encryption and/or authentication of ESP
15 type is used for processing the-packet, although the invention is not limited to the use of only ESP; instead, an arbitrary IPsec connection may be used.

In said processing, a new IP header is constructed for the packet, with so-called outer IP addresses. The outer source
20 address of the packet can be the same as the inner IP address—i.e., the address of the mobile terminal—but can be different, if the mobile terminal is visiting a network.

The outer source address corresponds to the care of address obtained by the mobile terminal from the visited network, in this case. The outer destination address is the address of the intermediate computer. In addition to the new IP header, an ESP header is added, when using IPsec ESP mode. The SPI field of the ESP header added by the IPsec processing is set to the SPI value that the intermediate computer uses for receiving packets from the mobile terminal. In general, there may be more than one SPI field in a packet.

The processing of packets in the intermediate computer is based on a translation table i.e. an IPsec translation table shown in FIG. 3. The table has been divided into two partitions. The left one, identified by the prefix "c-", refers to the network connection between the first computer (host 1 in FIG. 1) and the intermediate computer (host 2 in FIG. 1). The right one, identified by the prefix "s-", refers to the network connection between the intermediate computer and the second computer (computer 3 in FIG. 1). The postfix number ("-1", "-2", or "-3") identifies the host in question. Thus, the address fields ("addr") refer to outer addresses of a packet, while the SPI fields ("SPI") refer to the receiver of packets, which packets

were sent with this SPI. Thus, "c-SPI-2" is the SPI value used by host **2** (the intermediate computer) when receiving packets from host **1** (the first computer), and the SPI-value "c-SPI-1" is the SPI-value with which the first computer
5 receives messages and the SPI-value with which the intermediate computer sends messages to the first computer and so on.

In terms of FIG. 3, the outer source address would be "c-addr-1" (195.1.2.3), the outer destination address "c-addr-
10 2" (212.90.65.1), while the SPI field would be "c-SPI-2" (0x12341234). The notation 0xNNNNNNNN indicates a 32-bit unsigned integer value, encoded using a hexadecimal notation (base **16**). The inner source address is processed by IPSec in the first computer, and would typically be
15 encrypted. In this example, the inner source address would be the static address of the mobile terminal, e.g. 10.0.0.1.

When the intermediate computer receives the packet sent in step **1** described above, it performs an address and SPI
20 translation, ensuring that the security gateway (host **3** of FIG. 1) can accept the packet. Most of the packet is secured using IPSec, and since the intermediate computer does not have the cryptographic keys to undo the IPSec

processing done by the mobile terminal, it cannot decrypt any encrypted portions of the packet but is able to use the outer IP addresses and the incoming SPI value to determine how to modify the outer address and the SPI to suite the
5 second computer, which is the next destination. SPI is now changed to 0x56785678 in the intermediate computer and the address is changed to the address of the second computer. This is done by means of the IPsec translation table of FIG. 3.

10 The first row of FIG. 3 is a row that the intermediate computer has found that matches the packet in the example, and thus the intermediate computer chooses it for translation. The new outer source address s-addr-2 (212.90.65.1) is substituted for the outer source address
15 c-addr-1 (195.1.2.3), and the new outer destination address s-addr-3 (103.6.5.4) is substituted for the outer destination address c-addr-2 (212.90.65.1). The new SPI value, s-SPI-3 (0x56785678), is substituted for the SPI value c-SPI-2 (0x12341234). If more than one SPI values are
20 used, all the SPI values are substituted similarly. In the example, s-addr-2 and c-addr-2 happen to be the same on both partitions of the table. This is not necessarily so

but the intermediate computer might use another address for sending.

In step **2** of FIG. 2, the translated packet is sent further to the second computer. The inner IP packet has not been
5 modified after that the first computer sent the packet. The second computer processes the packet using standard IPsec algorithms. The security gateway (the second computer) can e.g. decipher and/or check the authenticity of the packet, then remove the IPsec tunnelling, and forward the original
10 packet towards the destination host, X. Thus, the entire original packet was unaffected by the translation as the IP header, and thus the address fields, was covered by IPsec.

After uncovering the original packet from the IPsec tunnel, the second computer makes a routing decision based on the
15 IP header of the original packet. In the example, the IP destination address is X (host X in FIG. 2), and thus the second computer delivers the packet either directly to X, or to the next hop router.

In step **3** of FIG. 2, the packet is sent from the second
20 computer (corresponding to SGW in FIG. 1) to host X, having now only the original source IP address 10.0.0.1 and the original destination IP address X in the IP header. Thus,

in step **3**, host X receives the packet sent by the second computer. Usually, an application process running on host X would generate some return traffic. This would cause an IP packet to be generated and sent to the second computer.

5 If a packet is sent back from host X to the first computer (corresponding to the client computer in FIG. 1), steps analogous to steps **1-3** are performed. The packet is thus first sent to the second computer, with the source IP address being X and the destination IP address being
10 10.0.0.1, in step **4**. The generated packet is then received by the second computer. The IPsec policy of the second computer requires that the packet be IPsec-processed using a tunnel mode IPsec SA. This processing is similar to the one in steps **1** and **2**. A new, outer IP header is added to
15 the packet in the second computer, after which the resulting packet is secured using the IPsec SA. The outer IP source address is set to s-addr-**3** (103.6.5.4) while the outer IP destination address is set to s-addr-**2**
(212.90.65.1). The SPI field is set to s-SPI-**2**
20 (0xc1230012). In step **5**, the resulting packet is sent to the address indicated by the new outer IP destination address, s-addr-**2**, the intermediate computer. The

intermediate computer receives the packet and performs a similar address and SPI translation.

The inner addresses are still the same, and are not modified by the intermediate computer. Since the packet
5 intended to be sent to the first computer, the new, translated outer destination IP address indicate the address of the first computer.

The resulting packet is sent to the first computer in step
6.

10 As a result of step **6**, the packet is received by the first computer. The IPsec processing is undone, i.e. decryption and/or authentication is performed, and the original packet is uncovered from the IPsec tunnel. The original packet is then delivered to the application running on the first
15 computer. In case the first computer acts as a router, the packet may be delivered to a host in a subnet for which the first computer acts as a router.

The first computer may be a mobile terminal, the outer address of which changes from time to time. The translation
20 table is then modified using some form of signalling messages, as described in the summary section. Upon receiving a request for modifying a translation, the

intermediate computer updates the related translation table entry to match the new information supplied by the first computer. The operation of the protocol then proceeds as discussed above.

- 5 The above discussion is a limited example for illustration purposes. In other embodiments e.g. more than one SA for the connection—for instance, ESP followed by AH, can be used. This introduces two SPI values that must be translated. More than two is also, of course, possible.
- 10 Furthermore, the example was considered for IPsec ESP only. The changes required for an embodiment in which AH (or ESP+AH) is used, are discussed next.

Changes for Using AH:

- If the Authentication Header (AH) IPsec security transform is to be used, there are more considerations than in the previous example. In particular, modifications of the packet fields—even the outer IP header—are detected if AH is used. Thus, the following nominal processing is required by the first computer. The second computer performs
- 20 standard IPsec processing also in this case.

In step **1**, when sending a packet, the first computer must perform IPsec processing using the SPI values and addresses

used in the connection between the intermediate computer and the second computer. For instance, the SPI value would be s-SPI-3, the outer source address s-addr-2, and the outer destination address s-addr-3. The AH integrity check value (ICV) must be computed using these values. ICV is a value, which authenticates most of the fields of the packet. In practice, all fields that are never modified by routers are authenticated.

After computing the AH integrity check value, the outer addresses and the SPI value are replaced with the values used between the first computer and the intermediate computer: c-addr-1 for the outer source address, c-addr-2 for the outer destination address, and c-SPI-2 for the SPI.

In step 2, the intermediate computer performs the address and SPI translations as in the example with ESP described above. The resulting packet is identical to the one used by the first computer for the AH integrity check value calculation, except possibly for fields not covered by AH (such as the Time-To-Live field, the header checksum, etc). Thus, the AH integrity check value is now correct.

In step 3, the second computer performs standard IPsec processing of AH. The packet, which now is uncovered from

the tunnel is sent to the host X. As in the previous example, an application in host X usually generates a return packet that is to be sent to the first computer. This packet is sent to the second computer in step 4.

5 Upon receiving the packet, the processing of the second computer are the same as in the example with ESP. The second computer computes an AH integrity check value of the tunneled packet it is sending to the mobile terminal. The integrity check value is computed against the outer source
10 address of s-addr-3, outer destination address of s-addr-2, and the SPI value of s-SPI-2.

In step 5, when the intermediate computer receives the packet, it performs ordinary translation of the packet. The new outer source address is c-addr-2, the outer destination
15 address is c-addr-1, and the SPI value is c-SPI-1. At this point the AH integrity check value is incorrect, which was caused by the translations.

When the mobile terminal receives the packet, it performs a translation of the current outer addresses and the SPI
20 field for the original ones used by the second computer: s-addr-3 for the outer source address, s-addr-2 for the outer destination address, and s-SPI-2 for the SPI value. This

reproduces the packet originally sent by the second computer, except possibly for fields not covered by AH. This operation restores the AH integrity check value to its original, correct value. The AH integrity check is then performed against these fields.

Key Exchange Considerations

The above example discussed the "steady state" IPsec translations performed by the intermediate computer. The IPsec SAs and the IPsec translation table entries may be set up manually, or using some automated protocol, such as the Internet Key Exchange (IKE) protocol.

Because the security gateway (the second computer) is a standard IPsec host, it implements some standard key exchange protocol, such as IKE. The first computer and the intermediate computer may use some modified version of IKE, or any other suitable automatic key exchange protocol.

The key exchange must appear as a standard key exchange according to the key exchange protocol supported by the security gateway (the second computer), such as IKE. Also, the overall key exchange performed by the first, intermediate, and second computer must establish not only cryptographic keys, but also the IPsec translation table

entries. The overall key exchange protocol should not reveal the IPsec cryptographic keys to the intermediate computer to avoid even the potential for security problems.

In the following, an example of a modified IKE protocol is presented to outline the functionality of such a protocol in the context of the invention. The protocol provides the functionality described above. In particular, the intermediate computer has no knowledge of the IPsec cryptographic keys established. The protocol is presented on a general level to simplify the presentation.

The automatic IKE protocol is used prior to other protocols to provide strongly authenticated cryptographic session keys for the IPsec protocols ESP and AH. IKE performs the following functions: (1) security policy negotiation (what algorithms shall be used, lifetimes etc.), (2) a Diffie-Hellman key exchange, and (3) strong user/host authentication (usually using either RSA-based signatures or pre-shared authentication keys). IKE is divided into two phases: phase **1** and phase **2**. Phase **1** negotiates and establishes cryptographic keys for internal use of the IKE protocol itself, and also performs the strong user or host authentication. Phase **2** negotiates and establishes cryptographic keys for IPsec. If IPsec tunnel mode is used,

phase 2 also negotiates the kind of traffic that may be sent using the tunnel (so-called traffic selectors).

The IKE framework supports several "sub-protocols" for phase 1 and phase 2. The required ones are "main mode" for phase 1, and "quick mode" for phase 2. These are used as illustrations, but the invention is not limited to these sub-protocols of IKE.

For the security gateway (second computer), the IKE session seems to be coming from the address s-addr-2 in FIG. 3.

10 Since there may be any number of mobile terminals served by the intermediate computer, the intermediate computer should either (1) manage a pool of addresses to be used for the s-addr-2 translation table address, thus providing each user with a separate "surrogate address", or (2) use the same
15 address (or a limited set of addresses), and ensure that the mobile terminals are identified using some other means than their IP address (IKE provides for such identification types, so this is not a problem).

The modified IKE protocol specified is analogous to the
20 IPsec translation table approach. However, instead of SPIs, the so-called IKE cookies are used as translation indices instead. IKE cookies are essentially IKE session

identifiers, and are thus analogous to the IPsec SPI values, which is another form of a session or context identifier. There are two cookies: the initiator cookie, chosen by the host that initiates the IKE session, and the responder cookie, chosen by the host that responds to a session initiation.

The essential features of the protocol are (1) that it appears to be an entirely ordinary IKE key exchange for the security gateway, (2) that the IPsec translation table entry is formed by the intermediate computer during the execution of the protocol, (3) that the first computer obtains all the necessary information for its packet processing, and (4) that the intermediate computer does not obtain the IPsec cryptographic session keys.

The overall steps of the protocol are:

- o 1. The first computer initiates the key exchange protocol by sending a message to the intermediate computer. This message is essentially the IKE main mode initiation message, with some modifications required for this application.

- o 2. The intermediate computer determines which security gateway (second computer) to forward this IKE session to, and also establishes a preliminary IKE translation table entry based on the information available from the message.
- o 3. The security gateway (the second computer) replies to the IKE main mode initiation message.
- o 4. The intermediate computer completes the IKE mapping based on the reply message.
- o 5. The modified IKE protocol run continues through IKE main mode (the phase 1 exchange), which is followed by quick mode (the phase 2 exchange). Extensions of standard IKE messages are used between the first computer and the intermediate computer to accomplish the extra goals required by this modified IKE protocol.

In FIG. 4, the IKE session is described message by message. The following text indicates the contents of each message, and how they are processed by the various hosts. There are six main mode messages in the protocol, named mm1, mm2, . . . , mm6, and three quick mode messages, named qm1, qm2, and qm3.

FIG. 5 illustrates the IKE translation table entry related to the modified IKE key exchange being performed. The bolded entries in each step are added or changed in that step as a result of the processing described in the text.

5 The IKE translation table partition for the connection between the first computer and the intermediate computer is as follows (the field name in FIG. 5 is given in parentheses):

Local and remote IP address (c-addr-1, c-addr-2)

10 Initiator and responder cookie (c-icky, c-rcky)

IKE identification of the first computer (c-userid, e.g. joe@netseal.com)

The IKE translation table partition for the connection between the intermediate computer and the second computer
15 is as follows (the field name in FIG. 5 is given in parentheses):

Local and remote IP address (s-addr-2, s-addr-3)

Initiator cookie and responder cookie (s-icky, s-rcky)

In addition to these entries, other data may be kept by the
20 intermediate computer and/or the first computer.

The key exchange is initiated by generating an initiator cookie and sending a zero responder cookie to the second computer. A responder cookie is generated in the second computer and a mapping between IP addresses and IKE cookie values in the intermediate computer is established. A translation table to modify IKE packets in flight by modifying the external IP addresses and possibly IKE cookies of the IKE packets is used.

Either the modified IKE protocol between the first computer and the intermediate computer is modified such that the IKE keys are transmitted from the first computer to the intermediate computer for decryption and modification of IKE packets or, alternatively, the modified IKE protocol between the first computer and the intermediate computer is modified such that the IKE keys are not transmitted from the first computer to the intermediate computer for decryption and modification of IKE packets, and the modification of IKE packets is done by the first computer with the intermediate computer requesting such modifications. The latter alternative is discussed in the example that follows, since it is more secure than the first alternative.

Extra information, such as user information and SPI change requests, to be sent between the first and the intermediate computer, is sent by appending the extra information to the standard IKE messages. The IKE standard has message

5 encoding rules that indicate a definite length, thus the added extra information can be separated from the IKE message itself. The extra information fields are preferably encrypted and authenticated, for instance by using a secret shared by the first computer and the intermediate computer.

10 The details of this process are not relevant to the invention.

The extra information slot in each IKE message is called the message "tail" in the following.

IKE messages consist of an IKE header, which includes the

15 cookie fields and message ID field, and of a list of payloads. A payload has a type, and associated information.

FIG. 4 considers an example of the routing of packets according to the invention considering IPsec security association set-up for distribution of keys. As in the

20 foregoing FIG. 2, the session begins with sending a packet from the client (first computer) to the server (intermediate computer).

The key exchange is initiated by the first computer. Thus, in step **1** of FIG. 4, the first computer constructs **mm1**. The IP header of the message contains the following values:

- 5 o IP source address: 195.1.2.3 (c-addr-1)
- o IP destination address: 212.90.65.1 (c-addr-2)

The IKE header contains the following values (step **1** in Figure X):

- 10 o Initiator cookie: **CKY1** (c-icky)
- o Responder cookie: **0** (c-rcky)
- o Message ID: **0**

The message contains the following payloads:

- 15 o A Security Association (SA) payload, which contains the IKE phase **1** security policy offers from the first computer.
- o The message may contain additional payloads, such as Vendor Identification (VID) payloads,
- 20 certificate requests/responses, etc.

- o A VID payload can be used to indicate that the first computer supports the protocol described here.

The message tail contains the following information:

5

- o User identification type and value--the c-userid field. These are used by the intermediate computer to choose a security gateway to forward this session to. The identification type may be any of the IKE types, but additional types can be defined. An alternative to this field is to directly indicate the security gateway for forwarding. There are other alternatives as well, but these are not essential to the invention.

15 In step 2, the mm1 is received by the intermediate computer. The intermediate computer examines the message, and forms the preliminary IKE translation table entry. FIG. 5, step 1 illustrates the contents of this preliminary entry. The c-userid field is sent in the mm1 tail.

20 The intermediate computer then determines which security gateway to forward this IKE session to. The determination

may be based on any available information, static configuration, load balancing, or availability requirements. The presented, simple method is to use the identification information in the mm1 tail to look up the first matching identification type and value from a table. An example of such a table is presented in FIG. 6.

The identification mapping table of FIG. 6, is one method for choosing a security gateway that matches the incoming mobile terminal. The identification table would in this example be an ordered list of identification type/value entries, that match to a given security gateway address. When the incoming mobile terminal identification matches the identification in the table, the corresponding security gateway is used. For instance, john.smith@netseal.com would match the first row of the table, i.e., the security gateway 123.1.2.3, while joe@netseal.com matches the second row, i.e., the security gateway 103.6.5.4. The identification types include any identification types defined for the IKE protocol, and may contain other types as well, such as employee numbers, etc.

Other methods of determining the security gateway to be used may be employed. One such method is for the mobile terminal to directly indicate a given security gateway to

be used. The mobile terminal may also indicate a group of security gateways, one of which is used. The exact details are not relevant to the invention.

In addition to determining the security gateway address, 5 the intermediate computer determines which address its for communication between itself and the second computer. The same address as is used for the communication between the first and the intermediate computer may be used, but a new address may also be used. The address can be determined 10 using a table similar to the one in FIG. 6, or the table of FIG. 6 may be extended to include this address.

The intermediate computer then generates its own initiator cookie. This is done to keep the two session identifier spaces entirely separate, although the same initiator 15 cookie may be passed as is.

After these determinations, the preliminary translation table entry is modified. FIG. 5, step **2** illustrates the contents of the entry at this point.

The original IP header fields are modified as follows (step 20 **2** in FIG. 4):

- o IP source address: 212.90.65.1 (s-addr-2)
- o IP destination address: 103.6.5.4 (s-addr-3)

The IKE header is modified as follows:

- 5
- o Initiator cookie: CKY2 (s-icky)
 - o Responder cookie: 0 (s-rcky)
 - o Message ID: 0

The message tail is removed. The VID payload that identifies support for this modified protocol is also removed. The mm1 is then forwarded to the second computer.

10

In step 3, the second computer responds with mm2. The IP header of the message contains the following values (step 3 in FIG. 4):

- 15
- o IP source address: 103.6.5.4 (s-addr-3)
 - o IP destination address: 212.90.65.1 (s-addr-2)

The IKE header contains the following values:

- o Initiator cookie: CKY2 (s-icky)

- o Responder cookie: CKY3 (s-rcky)
- o Message ID: 0

The message contains the following payloads:

- 5 o Security Association (SA) payload. This is a
reply to the offer by the first computer, and
indicates which security configuration is
acceptable for the second computer (this scenario
assumes success, so the case of an error reply is
10 not considered).
- o Possibly optional IKE payloads, such as VID
payloads, certificate requests/replies, etc.

There is no message tail.

In step 4, the mm2 is received by the intermediate
15 computer. The intermediate computer updates its IKE
translation table based on the received message. Step 3 in
FIG. 5 illustrates the contents of the translation table
entry at this point.

The intermediate computer generates its own responder
20 cookie, CKY4, and updates the translation table yet again.
Step 4 in FIG. 5 illustrates the entry at this point. After

this step, the translation table entry is complete, and the address and cookie translations are performed as in steps 1-4 for the following messages.

The translated message contains the following IP header fields (FIG. 4, step 4)

- o IP source address: 212.90.65.1 (c-addr-2)
- o IP destination address: 195.1.2.3 (c-addr-1)

The translated IKE header contains the following fields:

10

- o Initiator cookie: CKY1 (c-icky)
- o Responder cookie: CKY4 (c-rcky)

The message contains the following payloads:

15

- o The SA payload sent by the second computer.
- o Any optional payloads sent by the second computer.
- o A VID payload may be added to indicate support of this modified protocol to the first computer.

A message tail is added, and contains the following information:

- 5 o Address and/or identification information of the chosen security gateway (the second computer). This information can be used by the client to choose proper authentication information, such as RSA keys.

The message is then forwarded to the first computer.

10 In step **5**, the first computer constructs **mm3**. The message contains the following payloads:

- 15 o A Key Exchange (KE) payload, that contains Diffie-Hellman key exchange data of the first computer.
- o A Nonce (NONCE) payload, that contains a random number chosen by the first computer.
- o Possibly optional IKE payloads.

The message is sent to the intermediate computer.

In step **6**, the mm**3** is forwarded to the second computer. The contents of the message are not changed, only the IP header addresses and the IKE cookies, in the manner described in steps **1-4**.

5 In step **7**, the second computer receives mm**3** and responds with mm**4**. The message contains the following payloads:

- 10 o A Key Exchange (KE) payload, that contains Diffie-Hellman key exchange data of the second computer.
- o A Nonce (NONCE) payload, that contains a random number chosen by the second computer.
- o Possibly optional IKE payloads.

In step **8**, the mm**4** is forwarded to the first computer.

15 In step **9**, the first computer constructs mm**5**, which is the first encrypted message in the session. All subsequent messages are encrypted using the IKE session keys established from the previous Diffie-Hellman key exchange (the messages mm**3** and mm**4**) by means of hash operations, as
20 described in the IKE specification. Note that the intermediate computer does not possess these keys, and can

thus not examine the contents of any subsequent IKE messages. In fact, the intermediate computer has no advantage compared to a hostile attacker if it attempts to decipher the IKE traffic. Instead, the intermediate
5 computer indirectly modifies some fields in the IKE messages by sending a modification request in the IKE message tail to the first computer, which does the requested modifications before IKE encryption processing.

The message contains the following payloads:

10

- o An Identification (ID) payload, that identifies the first computer to the second computer. This identification may be the same as the identification sent in the mm1 tail, but may
15 differ from that. These two identifications serve different purposes: the mm1 tail identification (c-userid) is used to select a security gateway for IKE session forwarding (the second computer), while the ID payload in this message is used by
20 the second computer for IKE authentication purposes, for instance, to select proper RSA authentication keys.

- o A Signature (SIG) or Hash (HASH) payload, that serves as an authenticator. A signature payload is used if RSA- or DSS-based authentication is used, while a hash payload is used for pre-shared key authentication. There are other authentication methods in IKE, and IKE can also be extended with new authentication methods. These are not essential to the invention, and the following text assumes RSA authentication (i.e., use of the signature payload).
- o Possibly optional IKE payloads.

The message tail contains the-following information:

- o The SPI value that the first computer wants to use for receiving IPsec-protected messages from the intermediate computer, i.e., the c-SPI-1 value of the IPsec translation table in FIG. 3. More than one SPI value could be transmitted here, but for simplicity, the following discussion assumes that only a single SPI is necessary (i.e. only one SA is applied for IPsec

traffic processing). Extending the scheme to multiple SPIs is straightforward.

In step **10**, the mm**5** is forwarded to the second computer.

The intermediate computer removes the message tail, and
5 performs the IKE translation discussed previously, and then forwards the message to the second computer.

In step **11**, the second computer receives the mm**5** message, and authenticates the user (or the host, depending on what identification type is used). Assuming that the
10 authentication succeeds, the second computer proceeds to authenticate itself to the first computer.

The mm**6** message contains the following payloads:

- 15 o An Identification (ID) payload, that identifies the second computer to the first computer.
- o A Signature (SIG) payload (here RSA authentication is assumed).
- o Possibly optional IKE payloads.

In step **12**, the mm**6** is received by the intermediate
20 computer. The intermediate computer does not change the

message itself, but adds a tail with the following information:

- 5 o The SPI value that the intermediate computer wants the first computer to offer to the second computer in the `qm1` message. Since the intermediate computer cannot access the contents of the IKE messages, this modification request is made using the message tail (see the discussion
10 of step **9**). The SPI value sent matches the `s-SPI-2` field of the IPsec translation table of FIG. 3.
- 15 o The SPI value that the intermediate computer wants the first computer to use for messages sent to itself. This matches the `c-SPI-2` field of the IPsec translation table of FIG. 3.

The resulting message is forwarded to the first computer.

In step **13**, the first computer constructs `qm1`, which contains the following IKE payloads:

- 20 o A Hash (HASH) payload, that serves as an authenticator of the message.

- o A Security Association (SA) payload, which contains the IKE phase 2 security policy offers from the first computer, i.e., the IPsec security policy offers. The SA payload contains the SPI value assigned to the first computer in the mm6 message, i.e., s-SPI-2 in FIG. 3.
- o Optionally, a Key Exchange (KE) payload, if a new Diffie-Hellman key exchange is to be performed in phase 2 (this depends on the contents of the SA payload).
- o A Nonce (NONCE) payload, which contains a random value chosen by the first computer.
- o Optionally, two Identification (ID) payloads that indicate the IPsec traffic selectors that the first computer proposes for an IPsec tunnel mode SA. If IPsec transport mode is used, these are not necessary, but they may still be used. They may also be omitted if IPsec tunnel mode is used.

The IKE header is the same as previously, except that the Message ID field now contains a non-zero 32-bit value, that serves as a phase 2 session identifier. This identifier remains constant for the entire quick mode exchange.

The message is sent to the intermediate computer.

In step **14**, the intermediate computer forwards the **qm1** message to the second computer.

In step **15**, the second computer inspects the security policy offers and other information contained in the **qm1** message, and determines which security policy offer matches its own security policy (the case when no security policies match results in an error notification message).

The second computer responds with **qm2** message that contains the following payloads:

10

- o A Hash (HASH) payload, that serves as an authenticator of the message.
- o A Security Association (SA) payload, which indicates the security policy offer chosen by the second computer. The message also contains the SPI value that the second computer wants to use when receiving IPsec-protected messages. The SPI value matches **s-SPI-3** of the IPsec translation table in FIG. 3.
- o Optionally, a Key Exchange (KE) payload, if a new Diffie-Hellman key exchange is to be performed in phase **2**.

15

20

- o A Nonce (NONCE) payload, which contains a random value chosen by the second computer.
- o If Identification (ID) payloads were sent by the first computer, the second computer also sends Identification payloads.

5

In step **16**, the intermediate computer forwards the qm2 message to the first computer.

In step **17**, the first computer constructs qm3 message, which contains the following payloads:

10

- o A Hash (HASH) payload, that serves as an authenticator of the message.

The following information is sent in the message tail:

15

- o The SPI value sent by the second computer in the qm2 message. This is sent here, because the intermediate computer cannot decrypt the qm2 message and look up the SPI from there. The SPI value matches s-SPI-3 of the IPsec translation table in FIG. 3.

20

In step **18**, the intermediate computer receives the **qm3** and reads the **s-SPI-3** value from the message tail. All the information required to construct the IPsec translation table entry is now gathered, and the entry can be added to the translation table. In particular, the information fields are as follows:

- o **c-addr-1**: same as **c-addr-1** of the IKE session (195.1.2.3).
- 10 o **c-addr-2**: same as **c-addr-2** of the IKE session (212.90.65.1).
- o **c-SPI-1**: received in the **mm5** message tail from the first computer.
- o **c-SPI-2**: chosen by the intermediate computer,
15 sent to the first computer in the **mm6** message tail.
- o **s-addr-2**: same as **s-addr-2** of the IKE session (212.90.65.1 in this example, may be different than **c-addr-2**).
- 20 o **s-addr-3**: same as **s-addr-3** of the IKE session (103.6.5.4).
- o **s-SPI-2**: chosen by the intermediate computer, sent to the first computer in **mm6** message tail.

- o s-SPI-3: sent by the second computer in qm2 to the first computer, which sends it to the intermediate computer in qm3 message tail.

The intermediate computer forwards the qm3 message to the
5 second computer, which completes the IKE key exchange, and
the IPsec translation table set up.

The IPsec cryptographic keys established using the modified
IKE key exchange presented above are either derived from
the Diffie-Hellman key exchange performed in IKE main mode,
10 or from the (optional) Diffie-Hellman key exchange
performed in quick mode. In both cases, the intermediate
computer has no access to the shared secret established
using the Diffie-Hellman algorithm. In fact, the
intermediate computer has no advantage when compared to a
15 random, hostile attacker.

The above presentation was simplified and exemplified to
increase clarity of the presentation. There are several
issues not discussed, but these issues are not essential to
the invention.

20 Some of these issues are the following:

- o The phase **1** used main mode. Any other IKE phase **1** exchange can be used; this changes the details of the protocol but not the essential ideas.
- o There are other approaches than the one presented here. One approach is for the first computer to reveal the IKE keys to the intermediate computer, so that the second computer is able to modify the required fields of the message (namely, SPI values).
- o The discussion assumes that the first computer initiates the IKE exchange. The opposite direction is possible, too, but requires more considerations.
- o The commit bit feature of IKE is not used. Adding that is simple.
- o Security gateway selection is based on a table lookup indexed by an identification type/value pair sent by the first computer. Other mechanisms are easy to implement.
- o The discussion assumes a successful IKE key exchange. Error cases are easy to handle.
- o Phase **1** policy lookup (when processing mm**1** and mm**2** messages) is not based on the identity of the IKE counterpart. This is not a major issue, since

the phase **1** security policy can be independent of the counterpart without limiting usability.

o Phase **1** is a pre-requisite for executing the protocol in the example. This can be easily
5 changed by moving some of the "tail" items to phase **2**.

o The protocol establishes a pair of SAs, one for each direction, and manages the SPI value
10 modifications of these SAs. It is easy to extend this to cover SA bundles with more than one SA, i.e., SAs applied in sequence (ESP followed by AH, for instance). This requires more than one SPI for each direction, but is easy to add to the protocol described.

15 The invention is not concerned with the details of the key exchange protocol. The presented outline for one such protocol is given as an example, several other alternatives exist. The invention is also not concerned with the IKE key exchange protocol: other key exchange protocols exist, and
20 similar ideas can be applied in using them in the content of the invention.

While the present invention has been described in accordance with preferred compositions and embodiments, it

is to be understood that certain substitutions and alterations may be made thereto without departing from the spirit and scope of the following claims.

Claims:

1-29. (Canceled)

5 30. (New) 1. A method for secure forwarding of a message in
a secure connection via an immediate computer, comprising:
the secure connection extending between a first source
address and a destination address via an intermediate
computer,
10 the intermediate computer receiving a secure message having
the first source address sent to an address of the
intermediate computer,
the intermediate computer reading an unique identity from
the secure message,
15 the intermediate computer finding the destination address
of the secure message by using the unique identity, and
the intermediate computer sending the secure message in the
secure connection to the destination address by using the
address of the intermediate computer as a second source
20 address.

31. (New) The method of claim 30 wherein the method further
comprises the step of establishing the secure connection
via the intermediate computer.

32. (New) The method of claim 31 wherein the method further comprises the step of establishing the secure connection with a key exchange protocol.

5 33. (New) The method of claim 30 wherein the method further comprises the step providing the secure message as an UDP message.

10

Abstract of Disclosure

The method and system enable secure forwarding of a message from a first computer to a second computer via an
5 intermediate computer in a telecommunication network. A message is formed in the first computer or in a computer that is served by the first computer, and in the latter case, sending the message to the first computer. In the first computer, a secure message is then formed by giving
10 the message a unique identity and a destination address. The message is sent from the first computer to the intermediate computer after which the destination address and the unique identity are used to find an address to the second computer. The current destination address is
15 substituted with the found address to the second computer, and the unique identity is substituted with another unique identity. Then the message is forwarded to the second computer.

20

METHOD FOR IDENTIFYING, SELECTING AND MATCHING COLORS**PRIOR APPLICATION**

This application is a U.S. Continuation Patent
5 Application based on US Patent Application Serial No.
10/500,930, filed 19 October 2005.

TECHNICAL FIELD

The method and system of the invention are intended to
10 secure connections in telecommunication networks.
Especially, it is meant for wireless Internet Service
Provider (ISP) connections.

TECHNICAL BACKGROUND

An internetwork is a collection of individual networks
15 connected with intermediate networking devices that
function as a single large network. Different networks can
be interconnected by routers and other networking devices
to create an internetwork.

A local area network (LAN) is a data network that covers a
20 relatively small geographic area. It typically connects
workstations, personal computers, printers and other
devices. A wide area network (WAN) is a data communication

network that covers a relatively broad geographic area.

Wide area networks (WANS) interconnect LANs across normal telephone lines and, for instance, optical networks; thereby interconnecting geographically disposed users.

5 There is a need to protect data and resources from disclosure, to guarantee the authenticity of data, and to protect systems from network based attacks. More in detail, there is a need for confidentiality (protecting the contents of data from being read) integrity (protecting the
10 data from being modified, which is a property that is independent of confidentiality), authentication (obtaining assurance about the actual sender of data), replay protection (guaranteeing that data is fresh, and not a copy of previously sent data), identity protection (keeping the
15 identities of parties exchanging data secret from outsiders), high availability, i.e. denial-of-service protection (ensuring that the system functions even when under attack) and access control. IPSec is a technology providing most of these, but not all of them. (In
20 particulars identity protection is not completely handled by IPSec, and neither is denial-of-service protection.)

The IP security protocols (IPSec) provides the capability to secure communications between arbitrary hosts, e.g.

across a LAN, across private and public wide area networks (WANs) and across the internet IPsec can be used in different ways, such as for building secure virtual private networks, to gain a secure access to a company network, or
5 to secure communication with other organisations, ensuring authentication and confidentiality and providing a key exchange mechanism. IPsec ensures confidentiality integrity, authentication, replay protection, limited traffic flow confidentiality, limited identity protection,
10 and access control based on authenticated identities. Even if some applications already have built in security protocols, the use of IPsec further enhances the security.

IPsec can encrypt and/or authenticate traffic at IP level. Traffic going in to a WAN is typically compressed and
15 encrypted and traffic coming from a WAN is decrypted and decompressed. IPsec is defined by certain documents, which contain rules for the IPsec architecture. The documents that define IPsec, are, for the time being, the Request For Comments (RFC) series of the Internet Engineering Task
20 Force (IETF), in particular, RFCs 2401-2412.

Two protocols are used to provide security at the IP layer; an authentication protocol designated by the header of the protocol, Authentication Header (AH), and a combined

encryption/authentication protocol designated by the format of the packet for that protocol, Encapsulating Security Payload (ESP) AH and ESP are however similar protocols, both operating by adding a protocol header. Both AH and ESP
5 are vehicles for access control based on the distribution of cryptographic keys and the management of traffic flows related to these security protocols.

Security association (SA) is a key concept in the authentication and the confidentiality mechanisms for IP. A
10 security association is a one-way relationship between a sender and a receiver that offers security services to the traffic carried on it if a secure two-way relationship is needed, then two security associations are required. If ESP and AH are combined, or if ESP and/or AH are applied more
15 than once, the term SA bundle is used, meaning that two or more SAs are used. Thus, SA bundle refers to one or more SAs applied in sequence, e.g. by first performing an ESP protection, and then an AH protection. The SA bundle is the combination of all SAs used to secure a packet.

20 The term IPsec connection is used in what follows in place of an IPsec bundle of one or more security associations, or a pair of IPsec bundles—one bundle for each direction—of one or more security associations. This term thus covers

both unidirectional and bi-directional traffic protection. There is no implication of symmetry of the directions, i.e., the algorithms and IPSec transforms used for each direction may be different.

5 A security association is uniquely identified by three parameters. The first one, the Security Parameters Index (SPI), is a bit string assigned to this SA. The SPI is carried in AH and ESP headers to enable the receiving system to select the SA under which a received packet will
10 be processed. IP destination address is the second parameter, which is the address of the destination end point of the SA, which may be an end user system or a network system such as a firewall or a router. The third parameter, the security protocol identifier indicates
15 whether the association is an AH or ESP security association.

In each IPSec implementation, there is a nominal security association data base (SADB) that defines the parameters associated with each SA. A security association is normally
20 defined by the following parameters. The Sequence Number Counter is a 32-bit value used to generate the sequence number field in AH or ESP headers. The Sequence Counter Overflow is a flag indicating whether overflow of the

sequence number counter should generate an auditable event and prevent further transmission of packets on this SA. An Anti-Replay Window is used to determine whether an inbound AH or ESP packet is a replay. AH information involves

5 information about the authentication algorithm, keys and related parameters being used with AH. ESP information involves information of encryption and authentication algorithms, keys, initialisation vectors, and related parameters being used with IPsec. AH information consists

10 of the authentication algorithm, keys and related parameters being used with AH. ESP information consists of encryption and authentication algorithms, keys, cryptographic initialisation vectors and related parameters being used with ESP. The sixth parameter, Lifetime of this

15 Security Association, is a time-interval and/or byte-count after which this SA must be replaced with a new SA (and new SPI) or terminated plus an indication of which of these actions should occur. IPsec Protocol Mode is either tunnel or transport mode. Maximum Transfer Unit (MTU), an optional

20 feature, defines the maximum size of a packet that can be transmitted without fragmentation. Optionally an MTU discovery protocol may be used to determine the actual MTU for a given route, however, such a protocol is optional.

Both AH and ESP support two modes used, transport and tunnel mode.

Transport mode provides protection primarily for upper layer protocols and extends to the payload of an IP packet

5 Typically, transport mode is used for end-to-end communication between two hosts. Transport mode may be used in conjunction with a tunnelling protocol, other than IPSec tunnelling, to provide a tunnelling capability.

Tunnel mode provides protection to the entire IP packet and
10 is usually used for sending messages through more than two components, although tunnel mode may also be used for end-to-end communication between two hosts. Tunnel mode is often used when one or both ends of a SA is a security gateway, such as a firewall or a router that implements
15 IPSec. With tunnel mode, a number of hosts on networks behind firewalls may engage in secure communications without implementing IPSec. The unprotected packets generated by such hosts are tunnelled through external networks by tunnel mode SAs set up by the IPSec software in
20 the firewall or secure router at boundary of the local network.

To achieve this, after the AH or ESP fields are added to the IP packet, the entire packet plus security fields are treated as the payload of a new outer IP packet with a new outer IP header. The entire original, or inner, packet
5 travels through a tunnel from one point of an IP network to another: no routers along the way are able to examine the inner IP packet. Because the original packet is encapsulated, the new larger packet may have totally different source and destination addresses, adding to the
10 security. In other words, the first step in protecting the packet using tunnel mode is to add a new IP header to the packet; thus the "IP|payload" packet becomes "IP|IP|payload". The next step is to secure the packet using ESP and/or AH. In case of ESP, the resulting packet
15 is "IP|ESP|IP|payload". The whole inner packet is covered by the ESP and/or AH protection. AH also protects parts of the outer header, in addition to the whole inner packet.

The IPsec tunnel mode operates e.g. in such a way that if a host on a network generates an IP packet with a destination
20 address of another host on another network, the packet is routed from the originating host to a security gateway (SGW), firewall or other secure router at the boundary of the first network. The SGW or the like filters all outgoing

packets to determine the need for IPsec processing. If this packet from the first host to another host requires IPsec, the firewall performs IPsec processing and encapsulates the packet in an outer IP header. The source IP address of this
5 outer IP header is this firewall and the destination address may be a firewall that forms the boundary to the other local network. This packet is now routed to the other host's firewall with intermediate routers examining only the outer IP header. At the other host firewall, the outer
10 IP header is stripped off and the inner packet is delivered to the other host.

ESP in tunnel mode encrypts and optionally authenticates the entire inner IP packet, including the inner IP header. AH in tunnel mode authenticates the entire inner IP packet,
15 including the inner IP header, and selected portions of the outer IP header.

The key management portion of IPsec involves the determination and distribution of secret keys. The default automated key management protocol for IPsec is referred to
20 as ISAKMP/Oakley and consists of the Oakley key determination protocol and Internet Security Association and Key Management Protocol (ISAKMP). Internet key exchange (IKE) is a newer name for the ISAKMP/Oakley protocol. IKE

is based on the Diffie-Hellman algorithm and supports RSA signature authentication among other modes. IKE is an extensible protocol, and allows future and vendor-specific features to be added without compromising functionality.

5 IPsec has been designed to provide confidentiality, integrity, and replay protection for IP packets. However, IPsec is intended to work with static network topology, where hosts are fixed to certain subnetworks. For instance, when an IPsec tunnel has been formed by using Internet Key
10 Exchange (IKE) protocol, the tunnel endpoints are fixed and remain constant. If IPsec is used with a mobile host, the IKE key exchange will have to be redone from every new visited network. This is problematic, because IKE key exchanges involve computationally expensive Diffie-Hellman
15 key exchange algorithm calculations and possibly RSA calculations. Furthermore, the key exchange requires at least three round trips (six messages) if using the IKE aggressive mode followed by IKE quick mode, and nine messages if using IKE main mode followed by IKE quick mode.
20 This may be a big problem in high latency networks, such as General Packet Radio Service (GPRS) regardless of the computational expenses.

In this text, the term mobility and mobile terminal does not only mean physical mobility, instead the term mobility is in the first hand meant moving from one network to another, which can be performed by a physically fixed terminal as well.

The problem with standard IPsec is thus that it has been designed for static connections. For instance, the endpoints of an IPsec tunnel mode SA are fixed. There is also no method for changing any of the parameters of an SA, other than by establishing a new SA that replaces the previous one. However, establishing SAs is costly in terms of both computation time and network latency.

An example of a specific scenario where these problems occur is described next in order to illustrate the problem.

In the scenario, there is a standard IPsec security gateway, which is used by a mobile terminal e.g. for remote access. The mobile terminal is mobile in the sense that it changes its network point of attachment frequently. A mobile terminal can in this text thus be physically fixed or mobile. Because it may be connected to networks administered by third parties, it may also have a point of attachment that uses private addresses—i.e., the network is

behind a router that performs network address translation (NAT). In addition, the networks used by the mobile terminal for access may be wireless, and may have poor quality of service in terms of throughput and e.g. packet drop rate.

Standard IPsec does not work well in the scenario. Since IPsec connections are bound to fixed addresses, the mobile terminal must establish a new IPsec connection from each point of attachment. If an automated key exchange protocol, such as IKE, is used, setting up a new IPsec connection is costly in terms of computation and network latency, and may require a manual authentication phase (for instance, a one-time password). If IPsec connections are set up manually, there is considerable manual work involved in configuring the IPsec connection parameters.

Standard IPsec does e.g. not work through NAT devices at the moment. A standard IPsec NAT traversal protocol is currently being specified, but the security gateway in the scenario might not support an IPsec protocol extended in this way. Furthermore, the current IPsec NAT traversal protocols are not well suited to mobility.

There are no provisions for improving quality of service over wireless links in the standard IPsec protocol. If the access network suffers from high packet drop rates, the applications running in the mobile host and a host that the mobile terminal is communicating with will suffer from packet drops.

A known method of solving some of these problems is based on having an intermediate host between the mobile terminal and the IPsec security gateway. The intermediate host might be a Mobile IP home agent, that provides mobility for the connection between the mobile terminal and the home agent, while the connection from the mobile node to the security gateway is an ordinary IPsec connection. In this case, packets sent by an application in the mobile client are first processed by IPsec, and then by Mobile IP.

In the general case, this implies both Mobile IP and IPsec header fields for packets exchanged by the mobile terminal and the home agent. The Mobile IP headers are removed by the home agent prior to delivering packets to the security gateway, and added when delivering packets to the mobile terminal. Because of the use of two tunnelling protocols (Mobile IP and IPsec tunnelling), the solution is referred to as "double tunnelling" in this document.

The above method solves the mobility problem, at the cost of adding extra headers to packets. This may have a significant impact on networks that have low throughput such as the General Packet Radio System (GPRS).

5 Another known method is again to use an intermediate host between the mobile client and the IPsec security gateway. The intermediate host has an IPsec implementation that may support NAT traversal, and possibly some proprietary extensions for improving quality of service of the access
10 network, for instance.

The mobile host would now establish an IPsec connection between itself and the intermediate host, and would also establish an IPsec connection between itself and the IPsec security gateway. This solution is similar to the first
15 known method, except that two IPsec tunnels are used. It solves a different set of problems—for instance, NAT traversal—but also adds packet size overhead because of double IPsec tunnelling.

A third known method is to use a similar intermediate host
20 as in the second known method, but establish an IPsec connection between the mobile terminal and the intermediate host, and another, separate IPsec connection between the

intermediate host and the security gateway. The IPSec connection between the mobile terminal and the intermediate host may support NAT traversal, for instance, while the second IPSec connection does not need to.

5 When packets are sent by an application in the mobile terminal, the packets are IPSec-processed using the IPSec connection shared by the mobile terminal and the intermediate host. Upon receiving these packets, the intermediate host undoes the IPSec-processing. For
10 instance, if the packet was encrypted, the intermediate host decrypts the packet. The original packet would now be revealed in plaintext to the intermediate host. After this, the intermediate host IPSec-processes the packet using the IPSec connection shared by the intermediate host and the
15 security gateway, and forwards the packet to the security gateway.

This solution allows the use of an IPSec implementation that support NAT traversal, and possibly a number of other (possibly vendor specific) improvements, addressing
20 problems such as the access network quality of service variations. Regardless of these added features, the IPSec security gateway remains unaware of the improvements, and is not required to implement any of the protocols involved

in improving service. However, the solution has a major drawback: the IPsec packets are decrypted in the intermediate host, and thus possibly sensitive data is unprotected in the intermediate host.

- 5 Consider a business scenario where a single intermediate host provides improved service to a number of separate customer networks, each having its own standard IPsec security gateway. Having decrypted packets of various customer networks in plaintext form in the intermediate
10 host is clearly a major security problem.

To summarise, the known solutions either employ extra tunnelling, causing extra packet size overhead, or use separate tunnels, causing potential security problems in the intermediate host(s) that terminate such tunnels.

15 **THE OBJECT OF THE INVENTION**

The object of the invention is to develop a method for forwarding secure messages between two computers, especially, via an intermediate computer by avoiding the above mentioned disadvantages.

Especially, the object of the invention is to forward secure messages in a way that enables changes to be made in the secure connection

SUMMARY OF THE INVENTION

5 The method and system of the invention enable secure forwarding of a message from a first computer to a second computer via an intermediate computer in a telecommunication network. It is mainly characterized in that a message is formed in the first computer or in a
10 computer that is served by the first computer, and in the latter case, sending the message to the first computer. In the first computer, a secure message is then formed by giving the message a unique identity and a destination address. The message is sent from the first computer to the
15 intermediate computer, whereafter said destination address and the unique identity are used to find an address to the second computer. The current destination address is substituted with the found address to the second computer, and the unique identity is substituted with another unique
20 identity. Then the message is forwarded to the second computer.

~~The advantageous embodiments have the characteristics of the subclaims,~~

Preferably, the first computer processes the formed message using a security protocol and encapsulates the message at least in an outer IP header. The outer IP header source address is the current address of the first computer, while the destination address is that of the intermediate computer. The message is then sent to the intermediate computer, which matches the outer IP header address fields together with a unique identifier used by the security protocol, and performs a translation of the outer addresses and the unique identity used by the security protocol. The translated packet is then sent to the second computer, which processes it using the standard security protocol in question. In the method of the invention, there is no extra encapsulation overhead as in the prior art methods. Also, the intermediate computer does not need to undo the security processing, e.g. decryption, and thus does not compromise security as in the prior art methods.

Corresponding steps are performed when the messages are sent in the reverse direction, i.e. from the second computer to the first computer.

Preferably, the secure message is formed by making use of the IPsec protocols, whereby the secure message is formed by using an IPsec connection between the first computer and the intermediate computer. The message sent from the first computer contains message data, an inner IP header containing actual sender and receiver addresses, an outer IP header containing the addresses of the first computer and the intermediate computer, a unique identity, and other security parameters. The unique identity is one or more SPI values and the other security parameters contain e.g. the IPsec sequence number(s). The number of SPI values depends on the SA bundle size (e.g. ESP+AH bundle would have two SPI values). In the following, when an SA is referred to, the same applies to an SA bundle. The other related security parameters, containing e.g. the algorithm to be used, a traffic description, and the lifetime of the SA, are not sent on the wire. Only SPI and sequence number are sent for each IPsec processed header (one SPI and one sequence number if e.g. ESP only is used; two SPIs and two sequence numbers if e.g. ESP+AH is used, etc.).

Thus, the unsecured data packet message is formed by the sending computer, which may or may not be the first computer. The IP header of this packet has IP source and

destination address fields (among other things). The packet is encapsulated e.g. wrapped inside a tunnel, and the resulting packet is secured. The secured packet has a new outer IP header, which contains another set of IP source and destination addresses (in the outer header—the inner header is untouched), i.e. there are two outer addresses (source and destination) and two inner addresses. The processed packet has a unique identity, the IPsec SPI value(s).

10 An essential idea of the invention is to use the standard protocol (IPSec) between the intermediate computer and the second computer and an "enhanced IPSec protocol" between the first computer and the intermediate computer. IPsec-protected packets are translated by the intermediate
15 computer, without undoing the IPsec processing. This avoids both the overhead of double tunneling and the security problem involved in using separate tunnels.

The translation is performed e.g. by means of a translation table stored at the intermediate computer. The outer IP
20 header address fields and/or the SPI-values are changed by the intermediate computer so that the message can be forwarded to the second computer.

By modifying the translation table and parameters associated to a given translation table entry, the properties of the connection between the first and the intermediate computers can be changed without establishing a new IPsec connection, or involving the second computer in any way.

One example of a change in the SA between the first computer and the intermediate computer is the change of addresses for enabling mobility. This can be accomplished in the invention simply by modifying the translation table entry address fields. Signaling messages may be used to request such a change. Such signalling messages may be authenticated and/or encrypted, or sent in plaintext. One method of doing authentication and/or encryption is to use an IPsec connection between the first computer and the intermediate computer. The second computer is unaware of this IPsec connection, and does not need to participate in the signalling protocol in any way. Several other methods of signalling exist, for instance, the IKE key exchange protocol maybe extended to carry such signalling messages.

In the signalling, e.g. a registration request is sent from the first computer to the intermediate computer which causes the intermediate computer to modify the addresses in

the mapping table and thus, the intermediate computer can identify the mobile next time a message is sent.

Preferably, as a result of a registration request, a reply registration is sent from the intermediate computer back to

5 the first computer.

Other examples of possible modifications to the SA—or in general, the packet processing behaviour—between the first computer and the intermediate computer are the following.

One example is the first computer and the intermediate

10 computer performs some sort of retransmission protocol that ensures that the IPsec protected packets are not dropped in the route between the first and the intermediate computer.

This may have useful applications when the first computer is connected using a network access method that has a high

15 packet drop rate—for instance, GPRS.

Such a protocol can be easily based on e.g. IPsec sequence number field and the replay protection window, which

provide a way to detect that packet(s) have been lost. When a receiving host detects missing packets, it can send a

20 request message for those particular packets. The request can of course be piggy-backed on an existing data packet that is being sent to the other host. Another method of

doing the retransmissions may be based on using an extra protocol inside which the IPSec packets are wrapped for transmission between the first and intermediate computer. In any case, the second computer remains unaware of such a retransmission protocol.

Another example is performing a Network Address Translation (NAT) traversal encapsulation between the first and the intermediate computer. This method could be based on e.g. using UDP encapsulation for transmission of packets between the first and the intermediate computer. The second computer remains unaware about this processing and does not even need to support NAT traversal at all. This is beneficial because there are several existing IPSec products that have no support for NAT traversal.

The system of the invention is a telecommunication network for secure forwarding of messages and comprises at least a first computer, a second computer and an intermediate computer. It is characterized in that the first and the second computers have means to perform IPSec processing, and the intermediate computer have means to perform IPSec translation and possibly key exchange protocol, such as IKE, translation, preferably by means of mapping tables. The intermediate computer may perform IPSec processing

related to other features, such as mobility signalling described above or other enhancements.

The IPsec translation method is independent of the key exchange translation method. Also manual keying can be used
5 instead of automatic keying. If automatic keying is used, any key exchange protocol can be modified for that purpose; however, the idea is to keep the second computer unaware of the interplay of the first and the intermediate computer.

An automatic key exchange protocol may be used in the
10 invention in several ways. The essential idea is that the second computer sees a standard key exchange protocol run, while the first and the intermediate computer perform a modified key exchange. The modified key exchange protocol used between the first and the intermediate computer
15 ensures that the IPsec translation table and other parameters required by the invention are set up as a side-effect of the key exchange protocol. One such modified protocol is presented in the application for the IKE key exchange protocol.

20 Each translation table consists of entries that are divided into two partitions. The first partition contains information fields related to the connection between the

first computer and the intermediate computer, while the second partition contains information fields related to the connection between the intermediate computer and the second computer.

5 The translation occurs by identifying the translation table entry by comparing against one partition, and mapping into the other. For traffic that is flowing from the first computer towards the second computer, through the intermediate computer, the entry is found by comparing the
10 received packet against entries in the first partition, and then translating said fields using information found in the second partition of the same entry. For traffic flowing in the opposite direction, the second partition is used for finding the proper translation table entry, and the first
15 partition for translating the packet fields.

The IPSec translation table partitions consist of the following information: the IP local address and the IP remote address (tunnel endpoint addresses) and SPIs for sending and receiving data.

20 As mentioned, a translation table entry consists of two such partitions, one for communication between first computer and the intermediate computer, and another for

communication between the intermediate computer and the second computer.

The invention described solves the above problems of prior art. The solution is based on giving the first computer, e.g. if it is mobile, an appearance of a standard computer for the second computer. Thus, the second computer will believe it is talking to a standard IPsec host, while the intermediate computer and the second computer will work together using a modified protocol, for instance a slightly modified IPsec and IKE that helps to accomplish this goal. There are, however, several other control protocols that could conceivably be used between the first and the intermediate computer.

In the following, the invention is described more in detail by using figures by means of some embodiment examples to carry out the invention. The invention is not restricted to the details of the figures and accompanying text, or any existing protocols, such as the currently standardised IPsec or IKE.

Especially, the invention can be concerned with other kinds of telecommunication networks wherein the method of the invention can be applied than that of the figures.

FIGURES**BRIEF DESCRIPTION OF THE DRAWINGS**

FIG. 1 illustrates an example of a telecommunication network of the invention.

5 FIG. 2 describes generally an example of the method of the invention.

FIG. 3 illustrates an example of an IPsec translation table used by the intermediate computer to change the outer IP address and SPI value.

10 FIG. 4 describes a detailed example of how the SA is formed in the invention.

FIG. 5 illustrates an example of translation tables for the modified key exchange of the invention.

15 FIG. 6 shows a mapping table for identification values of the user Security Gateway (SGW) addresses.

DETAILED DESCRIPTION OF THE INVENTION

An example of a telecommunication network of the invention is illustrated in FIG. 1, comprising a first computer, here a client computer **1** served by an intermediate computer,

here as a server **2**, and a host computer **4**, that is served by the second computer, here a security gateway (SGW) **3**. The security gateway supports the standard IPsec protocol and optionally the IKE key exchange protocol. The client
5 computer and the server computer support a modified IPsec and IKE protocol.

The invention is not restricted to the topology of FIG. 1. In other embodiments, the first computer may e.g. be a router; or there might e.g. not be a host behind the second
10 computer (in which case the first and the second computer are talking to each other directly), etc.

The IPsec translations taking place in the scenario of FIGS. 1, 2, and **3** are discussed first. The IPsec connections (such as SAs) in the scenario may be
15 established manually, or using some key exchange protocol, such as the Internet Key Exchange (IKE). To illustrate how a key exchange protocol would be used in the scenario of FIG. 1, a modified IKE protocol based on IKE translation is also presented later.

20 In the invention, an IPsec connection is shared by the first computer and the second computer, while the intermediate computer holds information required to perform

address and IPSec SPI translations for the packets. These translations accomplish the effect of "double tunnelling" (described in the technical background section), but with the method of the invention the confidentiality of the packets is not compromised, while simultaneously having no extra overhead when compared to standard IPSec. The intermediate computer does not know the cryptographic keys used to encrypt and/or authenticate the packets, and can thus not reveal their contents.

10 The advantage of the invention is that the logical IPSec connection shared by the first and the second computer can be enhanced by the first and the intermediate computer without involvement of the second computer. In particular the so-called "ingress filtering" performed by some routers does not pose any problems when translations of addresses are used. In the example presented, each host also manages its own IPSec SPI space independently.

In the example of FIG. 1, an IPSec connection is formed between the client computer **1** (the first computer) and the security gateway **3** (the second computer). To create an IPSec tunnel, a SA (or usually a SA bundle) is formed between the respective computers with a preceding key exchange. The key exchange between the first and the second

computer can take place manually or it can be performed with an automatic key exchange protocol such as the IKE protocol. For performing said key exchange, a standard IKE protocol is used between the server **2** and the security gateway **3**, and a modified IKE protocol is used between the client computer **1** and the server **2**. An example of a modified IKE protocol that can be used in the invention is described in connection with FIG. 4.

Messages to be sent to the host terminal **4** from the client computer **1** are first sent to the server **2**, wherein an IPSec translation and an IKE translation takes place. After that the message can be sent to the security gateway **3**, which sends the message further in plain text to the host terminal **4**.

The method of the invention, wherein messages in packet form are sent by routing to the end destination, is generally described in connection with FIG. 2. It is assumed in the following description that the IPSec connection between the first and second computer already is formed. The IPSec connection can be set up manually or automatically by e.g. an IKE exchange protocol which is described later.

FIG. 2 illustrates the sequence of events that take place when the first computer, corresponding to the mobile terminal in FIG. 1, sends a packet to a destination host, labelled X in the figure, and when the host X sends a
5 packet to the mobile terminal.

IP packets consist of different parts, such as a data payload and protocol headers. The protocol headers in turn consist of fields.

In step **1** of FIG. 2, the first computer, e.g. a mobile
10 terminal, forms an IP packet that is to be sent to host X. Typically, this packet is created by an application running on the mobile terminal. The IP packet source address is the address of the mobile terminal, while the destination
address is host X.

15 The packet is processed using an IPsec tunnel mode SA, which encapsulates the IP packet securely. The example assumes that IPsec encryption and/or authentication of ESP type is used for processing the-packet, although the invention is not limited to the use of only ESP; instead,
20 an arbitrary IPsec connection may be used.

In said processing, a new IP header is constructed for the packet, with so-called outer IP addresses. The outer source

address of the packet can be the same as the inner IP address—i.e., the address of the mobile terminal—but can be different, if the mobile terminal is visiting a network. The outer source address corresponds to the care of address
5 obtained by the mobile terminal from the visited network, in this case. The outer destination address is the address of the intermediate computer. In addition to the new IP header, an ESP header is added, when using IPsec ESP mode. The SPI field of the ESP header added by the IPsec
10 processing is set to the SPI value that the intermediate computer uses for receiving packets from the mobile terminal. In general, there may be more than one SPI field in a packet.

The processing of packets in the intermediate computer is
15 based on a translation table i.e. an IPsec translation table shown in FIG. 3. The table has been divided into two partitions. The left one, identified by the prefix "c-", refers to the network connection between the first computer (host **1** in FIG. 1) and the intermediate computer (host **2** in
20 FIG. 1). The right one, identified by the prefix "s-", refers to the network connection between the intermediate computer and the second computer (computer **3** in FIG. 1). The postfix number ("-1", "-2", or "-3") identifies the

host in question. Thus, the address fields ("addr") refer to outer addresses of a packet, while the SPI fields ("SPI") refer to the receiver of packets, which packets were sent with this SPI. Thus, "c-SPI-2" is the SPI value used by host **2** (the intermediate computer) when receiving packets from host **1** (the first computer), and the SPI-value "c-SPI-1" is the SPI-value with which the first computer receives messages and the SPI-value with which the intermediate computer sends messages to the first computer and so on.

In terms of FIG. 3, the outer source address would be "c-addr-1" (195.1.2.3), the outer destination address "c-addr-2" (212.90.65.1), while the SPI field would be "c-SPI-2" (0x12341234). The notation 0xNNNNNNNN indicates a 32-bit unsigned integer value, encoded using a hexadecimal notation (base **16**). The inner source address is processed by IPsec in the first computer, and would typically be encrypted. In this example, the inner source address would be the static address of the mobile terminal, e.g. 10.0.0.1.

When the intermediate computer receives the packet sent in step **1** described above, it performs an address and SPI translation, ensuring that the security gateway (host **3** of

FIG. 1) can accept the packet. Most of the packet is secured using IPsec, and since the intermediate computer does not have the cryptographic keys to undo the IPsec processing done by the mobile terminal, it cannot decrypt any encrypted portions of the packet but is able to use the outer IP addresses and the incoming SPI value to determine how to modify the outer address and the SPI to suite the second computer, which is the next destination. SPI is now changed to 0x56785678 in the intermediate computer and the address is changed to the address of the second computer. This is done by means of the IPsec translation table of FIG. 3.

The first row of FIG. 3 is a row that the intermediate computer has found that matches the packet in the example, and thus the intermediate computer chooses it for translation. The new outer source address s-addr-2 (212.90.65.1) is substituted for the outer source address c-addr-1 (195.1.2.3), and the new outer destination address s-addr-3 (103.6.5.4) is substituted for the outer destination address c-addr-2 (212.90.65.1). The new SPI value, s-SPI-3 (0x56785678), is substituted for the SPI value c-SPI-2 (0x12341234). If more than one SPI values are used, all the SPI values are substituted similarly. In the

example, s-addr-**2** and c-addr-**2** happen to be the same on both partitions of the table. This is not necessarily so but the intermediate computer might use another address for sending.

5 In step **2** of FIG. 2, the translated packet is sent further to the second computer. The inner IP packet has not been modified after that the first computer sent the packet. The second computer processes the packet using standard IPsec algorithms. The security gateway (the second computer) can
10 e.g. decipher and/or check the authenticity of the packet, then remove the IPsec tunnelling, and forward the original packet towards the destination host, X. Thus, the entire original packet was unaffected by the translation as the IP header, and thus the address fields, was covered by IPsec.

15 After uncovering the original packet from the IPsec tunnel, the second computer makes a routing decision based on the IP header of the original packet. In the example, the IP destination address is X (host X in FIG. 2), and thus the second computer delivers the packet either directly to X,
20 or to the next hop router.

In step **3** of FIG. 2, the packet is sent from the second computer (corresponding to SGW in FIG. 1) to host X, having

now only the original source IP address 10.0.0.1 and the original destination IP address X in the IP header. Thus, in step **3**, host X receives the packet sent by the second computer. Usually, an application process running on host X would generate some return traffic. This would cause an IP packet to be generated and sent to the second computer.

If a packet is sent back from host X to the first computer (corresponding to the client computer in FIG. 1), steps analogous to steps **1-3** are performed. The packet is thus first sent to the second computer, with the source IP address being X and the destination IP address being 10.0.0.1, in step **4**. The generated packet is then received by the second computer. The IPsec policy of the second computer requires that the packet be IPsec-processed using a tunnel mode IPsec SA. This processing is similar to the one in steps **1** and **2**. A new, outer IP header is added to the packet in the second computer, after which the resulting packet is secured using the IPsec SA. The outer IP source address is set to s-addr-**3** (103.6.5.4) while the outer IP destination address is set to s-addr-**2** (212.90.65.1). The SPI field is set to s-SPI-**2** (0xc1230012). In step **5**, the resulting packet is sent to the address indicated by the new outer IP destination

address, s-addr-**2**, the intermediate computer. The intermediate computer receives the packet and performs a similar address and SPI translation.

The inner addresses are still the same, and are not
5 modified by the intermediate computer. Since the packet intended to be sent to the first computer, the new, translated outer destination IP address indicate the address of the first computer.

The resulting packet is sent to the first computer in step
10 **6**.

As a result of step **6**, the packet is received by the first computer. The IPsec processing is undone, i.e. decryption and/or authentication is performed, and the original packet is uncovered from the IPsec tunnel. The original packet is
15 then delivered to the application running on the first computer. In case the first computer acts as a router, the packet may be delivered to a host in a subnet for which the first computer acts as a router.

The first computer may be a mobile terminal, the outer
20 address of which changes from time to time. The translation table is then modified using some form of signalling messages, as described in the summary section. Upon

receiving a request for modifying a translation, the intermediate computer updates the related translation table entry to match the new information supplied by the first computer. The operation of the protocol then proceeds as
5 discussed above.

The above discussion is a limited example for illustration purposes. In other embodiments e.g. more than one SA for the connection—for instance, ESP followed by AH, can be used. This introduces two SPI values that must be
10 translated. More than two is also, of course, possible. Furthermore, the example was considered for IPsec ESP only. The changes required for an embodiment in which AH (or ESP+AH) is used, are discussed next.

Changes for Using AH:

15 If the Authentication Header (AH) IPsec security transform is to be used, there are more considerations than in the previous example. In particular, modifications of the packet fields—even the outer IP header—are detected if AH is used. Thus, the following nominal processing is required
20 by the first computer. The second computer performs standard IPsec processing also in this case.

In step **1**, when sending a packet, the first computer must perform IPsec processing using the SPI values and addresses used in the connection between the intermediate computer and the second computer. For instance, the SPI value would
5 be s-SPI-**3**, the outer source address s-addr-**2**, and the outer destination address s-addr-**3**. The AH integrity check value (ICV) must be computed using these values. ICV is a value, which authenticates most of the fields of the packet. In practice, all fields that are never modified by
10 routers are authenticated.

After computing the AH integrity check value, the outer addresses and the SPI value are replaced with the values used between the first computer and the intermediate computer: c-addr-**1** for the outer source address, c-addr-**2**
15 for the outer destination address, and c-SPI-**2** for the SPI.

In step **2**, the intermediate computer performs the address and SPI translations as in the example with ESP described above. The resulting packet is identical to the one used by the first computer for the AH integrity check value
20 calculation, except possibly for fields not covered by AH (such as the Time-To-Live field, the header checksum, etc). Thus, the AH integrity check value is now correct.

In step **3**, the second computer performs standard IPsec processing of AH. The packet, which now is uncovered from the tunnel is sent to the host X. As in the previous example, an application in host X usually generates a
5 return packet that is to be sent to the first computer. This packet is sent to the second computer in step **4**.

Upon receiving the packet, the processing of the second computer are the same as in the example with ESP. The second computer computes an AH integrity check value of the
10 tunneled packet it is sending to the mobile terminal. The integrity check value is computed against the outer source address of s-addr-**3**, outer destination address of s-addr-**2**, and the SPI value of s-SPI-**2**.

In step **5**, when the intermediate computer receives the
15 packet, it performs ordinary translation of the packet. The new outer source address is c-addr-**2**, the outer destination address is c-addr-**1**, and the SPI value is c-SPI-**1**. At this point the AH integrity check value is incorrect, which was caused by the translations.

20 When the mobile terminal receives the packet, it performs a translation of the current outer addresses and the SPI field for the original ones used by the second computer: s-

addr-**3** for the outer source address, s-addr-**2** for the outer destination address, and s-SPI-**2** for the SPI value. This reproduces the packet originally sent by the second computer, except possibly for fields not covered by AH.

5 This operation restores the AH integrity check value to its original, correct value. The AH integrity check is then performed against these fields.

Key Exchange Considerations

The above example discussed the "steady state" IPsec translations performed by the intermediate computer. The IPsec SAs and the IPsec translation table entries may be set up manually, or using some automated protocol, such as the Internet Key Exchange (IKE) protocol.

15 Because the security gateway (the second computer) is a standard IPsec host, it implements some standard key exchange protocol, such as IKE. The first computer and the intermediate computer may use some modified version of IKE, or any other suitable automatic key exchange protocol.

The key exchange must appear as a standard key exchange according to the key exchange protocol supported by the security gateway (the second computer), such as IKE. Also, the overall key exchange performed by the first,

intermediate, and second computer must establish not only cryptographic keys, but also the IPsec translation table entries. The overall key exchange protocol should not reveal the IPsec cryptographic keys to the intermediate
5 computer to avoid even the potential for security problems.

In the following, an example of a modified IKE protocol is presented to outline the functionality of such a protocol in the context of the invention. The protocol provides the functionality described above. In particular, the
10 intermediate computer has no knowledge of the IPsec cryptographic keys established. The protocol is presented on a general level to simplify the presentation.

The automatic IKE protocol is used prior to other protocols to provide strongly authenticated cryptographic session
15 keys for the IPsec protocols ESP and AH. IKE performs the following functions: (1) security policy negotiation (what algorithms shall be used, lifetimes etc.), (2) a Diffie-Hellman key exchange, and (3) strong user/host authentication (usually using either RSA-based signatures
20 or pre-shared authentication keys). IKE is divided into two phases: phase 1 and phase 2. Phase 1 negotiates and establishes cryptographic keys for internal use of the IKE protocol itself, and also performs the strong user or host

authentication. Phase **2** negotiates and establishes cryptographic keys for IPSec. If IPSec tunnel mode is used, phase **2** also negotiates the kind of traffic that may be sent using the tunnel (so-called traffic selectors).

- 5 The IKE framework supports several "sub-protocols" for phase **1** and phase **2**. The required ones are "main mode" for phase **1**, and "quick mode" for phase **2**. These are used as illustrations, but the invention is not limited to these sub-protocols of IKE.
- 10 For the security gateway (second computer), the IKE session seems to be coming from the address s-addr-**2** in FIG. 3. Since there may be any number of mobile terminals served by the intermediate computer, the intermediate computer should either (1) manage a pool of addresses to be used for the s-
- 15 addr-**2** translation table address, thus providing each user with a separate "surrogate address", or (2) use the same address (or a limited set of addresses), and ensure that the mobile terminals are identified using some other means than their IP address (IKE provides for such identification
- 20 types, so this is not a problem).

The modified IKE protocol specified is analogous to the IPSec translation table approach. However, instead of SPIs,

the so-called IKE cookies are used as translation indices instead. IKE cookies are essentially IKE session identifiers, and are thus analogous to the IPsec SPI values, which is another form of a session or context identifier. There are two cookies: the initiator cookie, chosen by the host that initiates the IKE session, and the responder cookie, chosen by the host that responds to a session initiation.

The essential features of the protocol are (1) that it appears to be an entirely ordinary IKE key exchange for the security gateway, (2) that the IPsec translation table entry is formed by the intermediate computer during the execution of the protocol, (3) that the first computer obtains all the necessary information for its packet processing, and (4) that the intermediate computer does not obtain the IPsec cryptographic session keys.

The overall steps of the protocol are:

- o 1. The first computer initiates the key exchange protocol by sending a message to the intermediate computer. This message is essentially the IKE

main mode initiation message, with some modifications required for this application.

- o 2. The intermediate computer determines which security gateway (second computer) to forward this IKE session to, and also establishes a preliminary IKE translation table entry based on the information available from the message.
- o 3. The security gateway (the second computer) replies to the IKE main mode initiation message.
- o 4. The intermediate computer completes the IKE mapping based on the reply message.
- o 5. The modified IKE protocol run continues through IKE main mode (the phase **1** exchange), which is followed by quick mode (the phase **2** exchange). Extensions of standard IKE messages are used between the first computer and the intermediate computer to accomplish the extra goals required by this modified IKE protocol.

In FIG. 4, the IKE session is described message by message. The following text indicates the contents of each message, and how they are processed by the various hosts. There are six main mode messages in the protocol, named mm**1**, mm**2**, . .

. , mm**6**, and three quick mode messages, named qm**1**, qm**2**, and qm**3**.

FIG. 5 illustrates the IKE translation table entry related to the modified IKE key exchange being performed. The
5 bolded entries in each step are added or changed in that step as a result of the processing described in the text.

The IKE translation table partition for the connection between the first computer and the intermediate computer is as follows (the field name in FIG. 5 is given in
10 parentheses):

Local and remote IP address (c-addr-**1**, c-addr-**2**)

Initiator and responder cookie (c-icky, c-rcky)

IKE identification of the first computer (c-userid, e.g. joe@netseal.com)

15 The IKE translation table partition for the connection between the intermediate computer and the second computer is as follows (the field name in FIG. 5 is given in parentheses):

Local and remote IP address (s-addr-**2**, s-addr-**3**)

20 Initiator cookie and responder cookie (s-icky, s-rcky)

In addition to these entries, other data may be kept by the intermediate computer and/or the first computer.

The key exchange is initiated by generating an initiator cookie and sending a zero responder cookie to the second
5 computer. A responder cookie is generated in the second computer and a mapping between IP addresses and IKE cookie values in the intermediate computer is established. A translation table to modify IKE packets in flight by modifying the external IP addresses and possibly IKE
10 cookies of the IKE packets is used.

Either the modified IKE protocol between the first computer and the intermediate computer is modified such that the IKE keys are transmitted from the first computer to the intermediate computer for decryption and modification of
15 IKE packets or, alternatively, the modified IKE protocol between the first computer and the intermediate computer is modified such that the IKE keys are not transmitted from the first computer to the intermediate computer for decryption and modification of IKE packets, and the
20 modification of IKE packets is done by the first computer with the intermediate computer requesting such modifications. The latter alternative is discussed in the

example that follows, since it is more secure than the first alternative.

Extra information, such as user information and SPI change requests, to be sent between the first and the intermediate
5 computer, is sent by appending the extra information to the standard IKE messages. The IKE standard has message encoding rules that indicate a definite length, thus the added extra information can be separated from the IKE
message itself. The extra information fields are preferably
10 encrypted and authenticated, for instance by using a secret shared by the first computer and the intermediate computer. The details of this process are not relevant to the invention.

The extra information slot in each IKE message is called
15 the message "tail" in the following.

IKE messages consist of an IKE header, which includes the cookie fields and message ID field, and of a list of payloads. A payload has a type, and associated information.

FIG. 4 considers an example of the routing of packets
20 according to the invention considering IPsec security association set-up for distribution of keys. As in the foregoing FIG. 2, the session begins with sending a packet

from the client (first computer) to the server
(intermediate computer).

The key exchange is initiated by the first computer. Thus,
in step **1** of FIG. 4, the first computer constructs mm**1**. The

5 IP header of the message contains the following values:

- o IP source address: 195.1.2.3 (c-addr-**1**)
- o IP destination address: 212.90.65.1 (c-addr-**2**)

The IKE header contains the following values (step **1** in

10 Figure X):

- o Initiator cookie: CKY**1** (c-icky)
- o Responder cookie: **0** (c-rcky)
- o Message ID: **0**

15 The message contains the following payloads:

- o A Security Association (SA) payload, which
contains the IKE phase **1** security policy offers
from the first computer.

- o The message may contain additional payloads, such as Vendor Identification (VID) payloads, certificate requests/responses, etc.
- o A VID payload can be used to indicate that the first computer supports the protocol described here.

The message tail contains the following information:

- o User identification type and value—the c-userid field. These are used by the intermediate computer to choose a security gateway to forward this session to. The identification type may be any of the IKE types, but additional types can be defined. An alternative to this field is to directly indicate the security gateway for forwarding. There are other alternatives as well, but these are not essential to the invention.

In step **2**, the mm**1** is received by the intermediate computer. The intermediate computer examines the message, and forms the preliminary IKE translation table entry. FIG. 5, step **1** illustrates the contents of this preliminary entry. The c-userid field is sent in the mm**1** tail.

The intermediate computer then determines which security gateway to forward this IKE session to. The determination may be based on any available information, static configuration, load balancing, or availability

5 requirements. The presented, simple method is to use the identification information in the mm1 tail to look up the first matching identification type and value from a table. An example of such a table is presented in FIG. 6.

The identification mapping table of FIG. 6, is one method
10 for choosing a security gateway that matches the incoming mobile terminal. The identification table would in this example be an ordered list of identification type/value entries, that match to a given security gateway address. When the incoming mobile terminal identification matches
15 the identification in the table, the corresponding security gateway is used. For instance, john.smith@netseal.com would match the first row of the table, i.e., the security gateway 123.1.2.3, while joe@netseal.com matches the second row, i.e., the security gateway 103.6.5.4. The
20 identification types include any identification types defined for the IKE protocol, and may contain other types as well, such as employee numbers, etc.

Other methods of determining the security gateway to be used may be employed. One such method is for the mobile terminal to directly indicate a given security gateway to be used. The mobile terminal may also indicate a group of security gateways, one of which is used. The exact details are not relevant to the invention.

In addition to determining the security gateway address, the intermediate computer determines which address its for communication between itself and the second computer. The same address as is used for the communication between the first and the intermediate computer may be used, but a new address may also be used. The address can be determined using a table similar to the one in FIG. 6, or the table of FIG. 6 may be extended to include this address.

The intermediate computer then generates its own initiator cookie. This is done to keep the two session identifier spaces entirely separate, although the same initiator cookie may be passed as is.

After these determinations, the preliminary translation table entry is modified. FIG. 5, step **2** illustrates the contents of the entry at this point.

The original IP header fields are modified as follows (step **2** in FIG. 4):

- o IP source address: 212.90.65.1 (s-addr-**2**)
- 5 o IP destination address: 103.6.5.4 (s-addr-**3**)

The IKE header is modified as follows:

- o Initiator cookie: CKY**2** (s-icky)
- o Responder cookie: **0** (s-rcky)
- 10 o Message ID: **0**

The message tail is removed. The VID payload that identifies support for this modified protocol is also removed. The mm**1** is then forwarded to the second computer.

In step **3**, the second computer responds with mm**2**. The IP header of the message contains the following values (step **3** in FIG. 4):

- o IP source address: 103.6.5.4 (s-addr-**3**)
- o IP destination address: 212.90.65.1 (s-addr-**2**)

The IKE header contains the following values:

- o Initiator cookie: CKY**2** (s-icky)
- o Responder cookie: CKY**3** (s-rcky)
- 5 o Message ID: **0**

The message contains the following payloads:

- o Security Association (SA) payload. This is a
reply to the offer by the first computer, and
10 indicates which security configuration is
acceptable for the second computer (this scenario
assumes success, so the case of an error reply is
not considered).
- o Possibly optional IKE payloads, such as VID
15 payloads, certificate requests/replies, etc.

There is no message tail.

In step **4**, the mm**2** is received by the intermediate
computer. The intermediate computer updates its IKE
translation table based on the received message. Step **3** in

FIG. 5 illustrates the contents of the translation table entry at this point.

The intermediate computer generates its own responder cookie, CKY**4**, and updates the translation table yet again.

5 Step **4** in FIG. 5 illustrates the entry at this point. After this step, the translation table entry is complete, and the address and cookie translations are performed as in steps **1-4** for the following messages.

The translated message contains the following IP header
10 fields (FIG. 4, step **4**)

- o IP source address: 212.90.65.1 (c-addr-**2**)
- o IP destination address: 195.1.2.3 (c-addr-**1**)

The translated IKE header contains the following fields:

15

- o Initiator cookie: CKY**1** (c-icky)
- o Responder cookie: CKY**4** (c-rcky)

The message contains the following payloads:

- o The SA payload sent by the second computer.
- o Any optional payloads sent by the second computer.
- o A VID payload may be added to indicate support of this modified protocol to the first computer.

A message tail is added, and contains the following information:

- o Address and/or identification information of the chosen security gateway (the second computer). This information can be used by the client to choose proper authentication information, such as RSA keys.

The message is then forwarded to the first computer.

In step **5**, the first computer constructs mm**3**. The message contains the following payloads:

- o A Key Exchange (KE) payload, that contains Diffie-Hellman key exchange data of the first computer.

- o A Nonce (NONCE) payload, that contains a random number chosen by the first computer.
- o Possibly optional IKE payloads.

The message is sent to the intermediate computer.

- 5 In step **6**, the mm**3** is forwarded to the second computer. The contents of the message are not changed, only the IP header addresses and the IKE cookies, in the manner described in steps **1-4**.

In step **7**, the second computer receives mm**3** and responds
10 with mm**4**. The message contains the following payloads:

- o A Key Exchange (KE) payload, that contains Diffie-Hellman key exchange data of the second computer.
- 15 o A Nonce (NONCE) payload, that contains a random number chosen by the second computer.
- o Possibly optional IKE payloads.

In step **8**, the mm**4** is forwarded to the first computer.

In step **9**, the first computer constructs mm**5**, which is the
20 first encrypted message in the session. All subsequent

messages are encrypted using the IKE session keys established from the previous Diffie-Hellman key exchange (the messages mm3 and mm4) by means of hash operations, as described in the IKE specification. Note that the

5 intermediate computer does not possess these keys, and can thus not examine the contents of any subsequent IKE messages. In fact, the intermediate computer has no advantage compared to a hostile attacker if it attempts to decipher the IKE traffic. Instead, the intermediate

10 computer indirectly modifies some fields in the IKE messages by sending a modification request in the IKE message tail to the first computer, which does the requested modifications before IKE encryption processing.

The message contains the following payloads:

15

- o An Identification (ID) payload, that identifies the first computer to the second computer. This identification may be the same as the identification sent in the mm1 tail, but may
- 20 differ from that. These two identifications serve different purposes: the mm1 tail identification (c-userid) is used to select a security gateway

for IKE session forwarding (the second computer), while the ID payload in this message is used by the second computer for IKE authentication purposes, for instance, to select proper RSA authentication keys.

5

- o A Signature (SIG) or Hash (HASH) payload, that serves as an authenticator. A signature payload is used if RSA- or DSS-based authentication is used, while a hash payload is used for pre-shared key authentication. There are other authentication methods in IKE, and IKE can also be extended with new authentication methods. These are not essential to the invention, and the following text assumes RSA authentication (i.e., use of the signature payload).
- o Possibly optional IKE payloads.

10

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The message tail contains the-following information:

- o The SPI value that the first computer wants to use for receiving IPsec-protected messages from the intermediate computer, i.e., the **c-SPI-1** value of the IPsec translation table in FIG. 3.

20

More than one SPI value could be transmitted here, but for simplicity, the following discussion assumes that only a single SPI is necessary (i.e. only one SA is applied for IPsec traffic processing). Extending the scheme to multiple SPIs is straightforward.

In step **10**, the mm**5** is forwarded to the second computer.

The intermediate computer removes the message tail, and performs the IKE translation discussed previously, and then forwards the message to the second computer.

In step **11**, the second computer receives the mm**5** message, and authenticates the user (or the host, depending on what identification type is used). Assuming that the authentication succeeds, the second computer proceeds to authenticate itself to the first computer.

The mm**6** message contains the following payloads:

- o An Identification (ID) payload, that identifies the second computer to the first computer.
- o A Signature (SIG) payload (here RSA authentication is assumed).

- o Possibly optional IKE payloads.

In step **12**, the mm**6** is received by the intermediate computer. The intermediate computer does not change the message itself, but adds a tail with the following

5 information:

- o The SPI value that the intermediate computer wants the first computer to offer to the second computer in the qm**1** message. Since the
10 intermediate computer cannot access the contents of the IKE messages, this modification request is made using the message tail (see the discussion of step **9**). The SPI value sent matches the s-SPI-**2** field of the IPsec translation table of FIG. 3.
- o The SPI value that the intermediate computer
15 wants the first computer to use for messages sent to itself. This matches the c-SPI-**2** field of the IPsec translation table of FIG. 3.

The resulting message is forwarded to the first computer.

20 In step **13**, the first computer constructs qm**1**, which contains the following IKE payloads:

- o A Hash (HASH) payload, that serves as an authenticator of the message.
- o A Security Association (SA) payload, which
5 contains the IKE phase **2** security policy offers from the first computer, i.e., the IPsec security policy offers. The SA payload contains the SPI value assigned to the first computer in the mm6 message, i.e., s-SPI-**2** in FIG. 3.
- 10 o Optionally, a Key Exchange (KE) payload, if a new Diffie-Hellman key exchange is to be performed in phase **2** (this depends on the contents of the SA payload).
- o A Nonce (NONCE) payload, which contains a random
15 value chosen by the first computer.
- o Optionally, two Identification (ID) payloads that indicate the IPsec traffic selectors that the first computer proposes for an IPsec tunnel mode SA. If IPsec transport mode is used, these are
20 not necessary, but they may still be used. They may also be omitted if IPsec tunnel mode is used.

The IKE header is the same as previously, except that the Message ID field now contains a non-zero 32-bit value, that

serves as a phase **2** session identifier. This identifier remains constant for the entire quick mode exchange.

The message is sent to the intermediate computer.

In step **14**, the intermediate computer forwards the qm**1** message to the second computer.

In step **15**, the second computer inspects the security policy offers and other information contained in the qm**1** message, and determines which security policy offer matches its own security policy (the case when no security policies match results in an error notification message).

The second computer responds with qm**2** message that contains the following payloads:

- o A Hash (HASH) payload, that serves as an authenticator of the message.
- o A Security Association (SA) payload, which indicates the security policy offer chosen by the second computer. The message also contains the SPI value that the second computer wants to use when receiving IPsec-protected messages. The SPI

value matches s-SPI-**3** of the IPsec translation table in FIG. 3.

- o Optionally, a Key Exchange (KE) payload, if a new Diffie-Hellman key exchange is to be performed in phase **2**.
- o A Nonce (NONCE) payload, which contains a random value chosen by the second computer.
- o If Identification (ID) payloads were sent by the first computer, the second computer also sends Identification payloads.

In step **16**, the intermediate computer forwards the qm**2** message to the first computer.

In step **17**, the first computer constructs qm**3** message, which contains the following payloads:

15

- o A Hash (HASH) payload, that serves as an authenticator of the message.

The following information is sent in the message tail:

- o The SPI value sent by the second computer in the qm2 message. This is sent here, because the intermediate computer cannot decrypt the qm2 message and look up the SPI from there. The SPI value matches s-SPI-3 of the IPsec translation table in FIG. 3.

In step 18, the intermediate computer receives the qm3 and reads the s-SPI-3 value from the message tail. All the information required to construct the IPsec translation table entry is now gathered, and the entry can be added to the translation table. In particular, the information fields are as follows:

- o c-addr-1: same as c-addr-1 of the IKE session (195.1.2.3).
- o c-addr-2: same as c-addr-2 of the IKE session (212.90.65.1).
- o c-SPI-1: received in the mm5 message tail from the first computer.
- o c-SPI-2: chosen by the intermediate computer, sent to the first computer in the mm6 message tail.

- o s-addr-**2**: same as s-addr-**2** of the IKE session (212.90.65.1 in this example, may be different than c-addr-**2**).
- o s-addr-**3**: same as s-addr-**3** of the IKE session (103.6.5.4).
- o s-SPI-**2**: chosen by the intermediate computer, sent to the first computer in mm**6** message tail.
- o s-SPI-**3**: sent by the second computer in qm**2** to the first computer, which sends it to the intermediate computer in qm**3** message tail.

The intermediate computer forwards the qm**3** message to the second computer, which completes the IKE key exchange, and the IPsec translation table set up.

The IPsec cryptographic keys established using the modified IKE key exchange presented above are either derived from the Diffie-Hellman key exchange performed in IKE main mode, or from the (optional) Diffie-Hellman key exchange performed in quick mode. In both cases, the intermediate computer has no access to the shared secret established using the Diffie-Hellman algorithm. In fact, the intermediate computer has no advantage when compared to a random, hostile attacker.

The above presentation was simplified and exemplified to increase clarity of the presentation. There are several issues not discussed, but these issues are not essential to the invention.

5 Some of these issues are the following:

- o The phase **1** used main mode. Any other IKE phase **1** exchange can be used; this changes the details of the protocol but not the essential ideas.
- 10 o There are other approaches than the one presented here. One approach is for the first computer to reveal the IKE keys to the intermediate computer, so that the second computer is able to modify the required fields of the message (namely, SPI
- 15 values).
- o The discussion assumes that the first computer initiates the IKE exchange. The opposite direction is possible, too, but requires more considerations.
- 20 o The commit bit feature of IKE is not used. Adding that is simple.

- o Security gateway selection is based on a table lookup indexed by an identification type/value pair sent by the first computer. Other mechanisms are easy to implement.
- 5 o The discussion assumes a successful IKE key exchange. Error cases are easy to handle.
- o Phase **1** policy lookup (when processing mm**1** and mm**2** messages) is not based on the identity of the IKE counterpart. This is not a major issue, since
10 the phase **1** security policy can be independent of the counterpart without limiting usability.
- o Phase **1** is a pre-requisite for executing the protocol in the example. This can be easily changed by moving some of the "tail" items to
15 phase **2**.
- o The protocol establishes a pair of SAs, one for each direction, and manages the SPI value modifications of these SAs. It is easy to extend this to cover SA bundles with more than one SA,
20 i.e., SAs applied in sequence (ESP followed by AH, for instance). This requires more than one SPI for each direction, but is easy to add to the protocol described.

The invention is not concerned with the details of the key exchange protocol. The presented outline for one such protocol is given as an example, several other alternatives exist. The invention is also not concerned with the IKE key exchange protocol: other key exchange protocols exist, and similar ideas can be applied in using them in the content of the invention.

While the present invention has been described in accordance with preferred compositions and embodiments, it is to be understood that certain substitutions and alterations may be made thereto without departing from the spirit and scope of the following claims.

Claims:

1-29. (Canceled)

- 5 30. (New) 1. A method for secure forwarding of a message in
a secure connection via an immediate computer, comprising:
the secure connection extending between a first source
address and a destination address via an intermediate
computer,
10 the intermediate computer receiving a secure message having
the first source address sent to an address of the
intermediate computer,
the intermediate computer reading a unique identity from
the secure message,
15 the intermediate computer finding the destination address
of the secure message by using the unique identity, and
the intermediate computer sending the secure message in the
secure connection to the destination address by using the
address of the intermediate computer as a second source
20 address.

31. (New) The method of claim 30 wherein the method further
comprises the step of establishing the secure connection
via the intermediate computer.

32. (New) The method of claim 31 wherein the method further comprises the step of establishing the secure connection with a key exchange protocol.

5 33. (New) The method of claim 30 wherein the method further comprises the step providing the secure message as an UDP message.

10

Abstract of Disclosure

The method and system enable secure forwarding of a message from a first computer to a second computer via an
5 intermediate computer in a telecommunication network. A message is formed in the first computer or in a computer that is served by the first computer, and in the latter case, sending the message to the first computer. In the first computer, a secure message is then formed by giving
10 the message a unique identity and a destination address. The message is sent from the first computer to the intermediate computer after which the destination address and the unique identity are used to find an address to the second computer. The current destination address is
15 substituted with the found address to the second computer, and the unique identity is substituted with another unique identity. Then the message is forwarded to the second computer.

20

Electronic Patent Application Fee Transmittal

Application Number:				
Filing Date:				
Title of Invention:	METHOD AND SYSTEM FOR SENDING A MESSAGE THROUGH A SECURE CONNECTION			
First Named Inventor/Applicant Name:	Sami Vaarala			
Filer:	Rolf Fasth/Sloan Smith			
Attorney Docket Number:	290.1078CON			
Filed as Large Entity				
Utility under 35 USC 111(a) Filing Fees				
Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Basic Filing:				
Utility application filing	1011	1	390	390
Utility Search Fee	1111	1	620	620
Utility Examination Fee	1311	1	250	250
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				
Miscellaneous:				
Total in USD (\$)				1260

Electronic Acknowledgement Receipt

EFS ID:	14309923
Application Number:	13685544
International Application Number:	
Confirmation Number:	4882
Title of Invention:	METHOD AND SYSTEM FOR SENDING A MESSAGE THROUGH A SECURE CONNECTION
First Named Inventor/Applicant Name:	Sami Vaarala
Customer Number:	33369
Filer:	Rolf Fasth/Sloan Smith
Filer Authorized By:	Rolf Fasth
Attorney Docket Number:	290.1078CON
Receipt Date:	26-NOV-2012
Filing Date:	
Time Stamp:	19:42:07
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	Deposit Account
Payment was successfully received in RAM	\$1260
RAM confirmation Number	9362
Deposit Account	060243
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File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Application Data Sheet	aia0014.pdf	1399930 d21c3ad13d32b8f0559a7ac4cadb0911d1b46df3	no	6
Warnings:					
Information:					
2	Transmittal of New Application	aia0015.pdf	138023 4d2aa8691da84249ab140631b8ba3970ff7ce985	no	2
Warnings:					
Information:					
3	Drawings-only black and white line drawings	FIGS.pdf	1726104 ae43ac2f790d9e7b00f5e1df89e3f2ccae0ed684	no	6
Warnings:					
Information:					
4		SPECIFICATION.pdf	217245 508eca7bb215a1db87856f6019aecc348f3590b5	yes	72
	Multipart Description/PDF files in .zip description				
	Document Description		Start	End	
	Specification		1	69	
	Claims		70	71	
Abstract		72	72		
Warnings:					
Information:					
5	Miscellaneous Incoming Letter	MARKED_UP_SPEC.pdf	191367 729861d04578977c1f96a21a3d0ddd61e5e727fb	no	72
Warnings:					
Information:					
6	Fee Worksheet (SB06)	fee-info.pdf	32990 308bfa12590c8d5a6212cfbd09069ef7c5802a0f	no	2
Warnings:					

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Application Data Sheet 37 CFR 1.76		Attorney Docket Number	290.1078CON
		Application Number	
Title of Invention	METHOD AND SYSTEM FOR SENDING A MESSAGE THROUGH A SECURE CONNECTION		
<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. 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

<input type="checkbox"/> 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					<input type="button" value="Remove"/>
Legal Name					
Prefix	Given Name	Middle Name	Family Name	Suffix	
	Sami		Vaarala		
Residence Information (Select One) <input type="radio"/> US Residency <input checked="" type="radio"/> Non US Residency <input type="radio"/> Active US Military Service					
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Address 2					
City	FI-02600 Espoo	State/Province			
Postal Code	FI	Country	FI		
Inventor 2					<input type="button" value="Remove"/>
Legal Name					
Prefix	Given Name	Middle Name	Family Name	Suffix	
	Antti		Nuopponen		
Residence Information (Select One) <input type="radio"/> US Residency <input checked="" type="radio"/> Non US Residency <input type="radio"/> Active US Military Service					
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Application Data Sheet 37 CFR 1.76		Attorney Docket Number	290.1078CON
		Application Number	
Title of Invention	METHOD AND SYSTEM FOR SENDING A MESSAGE THROUGH A SECURE CONNECTION		

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	33369		
Email Address	sloan.smith@fasthlaw.com	<input type="button" value="Add Email"/>	<input type="button" value="Remove Email"/>

Application Information:

Title of the Invention	METHOD AND SYSTEM FOR SENDING A MESSAGE THROUGH A SECURE CONNECTION		
Attorney Docket Number	290.1078CON	Small Entity Status Claimed	<input type="checkbox"/>
Application Type	Nonprovisional		
Subject Matter	Utility		
Suggested Class (if any)		Sub Class (if any)	
Suggested Technology Center (if any)			
Total Number of Drawing Sheets (if any)	2	Suggested Figure for Publication (if any)	

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:	<input checked="" type="radio"/> Customer Number	<input type="radio"/> US Patent Practitioner	<input type="radio"/> Limited Recognition (37 CFR 11.9)
Customer Number	33369		

Domestic Benefit/National Stage Information:

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

Prior Application Status	Pending	<input type="button" value="Remove"/>
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Application Data Sheet 37 CFR 1.76		Attorney Docket Number	290.1078CON
		Application Number	
Title of Invention	METHOD AND SYSTEM FOR SENDING A MESSAGE THROUGH A SECURE CONNECTION		
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)
	Continuation of	10500930	2005-10-19
Additional Domestic Benefit/National Stage Data may be generated within this form by selecting the Add button.			<input type="button" value="Add"/>

Foreign Priority Information:

This section allows for the applicant to claim benefit of foreign priority and to identify any prior foreign application for which priority is not claimed. 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(a).

			<input type="button" value="Remove"/>
Application Number	Country ⁱ	Filing Date (YYYY-MM-DD)	Priority Claimed
			<input type="radio"/> Yes <input checked="" type="radio"/> No
Additional Foreign Priority Data may be generated within this form by selecting the Add button.			<input type="button" value="Add"/>

Authorization to Permit Access:

Authorization to Permit Access to the Instant Application by the Participating Offices

If checked, the undersigned hereby grants the USPTO authority to provide the European Patent Office (EPO), the Japan Patent Office (JPO), the Korean Intellectual Property Office (KIPO), the World Intellectual Property Office (WIPO), and any other intellectual property offices in which a foreign application claiming priority to the instant patent application is filed access to the instant patent application. See 37 CFR 1.14(c) and (h). This box should not be checked if the applicant does not wish the EPO, JPO, KIPO, WIPO, or other intellectual property office in which a foreign application claiming priority to the instant patent application is filed to have access to the instant patent application.

In accordance with 37 CFR 1.14(h)(3), access will be provided to a copy of the instant patent application with respect to: 1) the instant patent application-as-filed; 2) any foreign application to which the instant patent application claims priority under 35 U.S.C. 119(a)-(d) if a copy of the foreign application that satisfies the certified copy requirement of 37 CFR 1.55 has been filed in the instant patent application; and 3) any U.S. application-as-filed from which benefit is sought in the instant patent application.

In accordance with 37 CFR 1.14(c), access may be provided to information concerning the date of filing this Authorization.

Applicant Information:

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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	290.1078CON
	Application Number	
Title of Invention	METHOD AND SYSTEM FOR SENDING A MESSAGE THROUGH A SECURE CONNECTION	

Applicant 1	
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.	
<input type="button" value="Remove"/>	
<input type="radio"/> Assignee	<input type="radio"/> Legal Representative under 35 U.S.C. 117
<input type="radio"/> Person to whom the inventor is obligated to assign.	<input type="radio"/> 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 : <input type="text"/>	
If the Assignee is an Organization check here. <input type="checkbox"/>	

Prefix	Given Name	Middle Name	Family Name	Suffix

Mailing Address Information:			
Address 1			
Address 2			
City		State/Province	
Country ⁱ		Postal Code	
Phone Number		Fax Number	
Email Address			

Additional Applicant Data may be generated within this form by selecting the Add button.	<input type="button" value="Add"/>
--	------------------------------------

Signature:	<input type="button" value="Remove"/>
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NOTE: This form must be signed in accordance with 37 CFR 1.33. See 37 CFR 1.4 for signature requirements and certifications			
Signature			Date (YYYY-MM-DD)
First Name	Last Name		Registration Number
Additional Signature may be generated within this form by selecting the Add button.			<input type="button" value="Add"/>

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Application Data Sheet 37 CFR 1.76		Attorney Docket Number	290.1078CON
		Application Number	
Title of Invention	METHOD AND SYSTEM FOR SENDING A MESSAGE THROUGH A SECURE CONNECTION		

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