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ACKNOWLEDGEMENT OF LOSS OF ENTITLEMENT TO ENTITY STATUS DISCOUNT

APPLICATION #	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTORNEY DOCKET #	REQUEST ID
18/088,450	12/23/2022	Gregory G. Raleigh	RALEP038D1C1C1C1C1	477302

The entity status change request below filed through Patent Center on 09/22/2025 has been accepted.

Certifications

APPLICANT CHANGING TO REGULAR UNDISCOUNTED FEE STATUS

Signature

I certify, in accordance with 37 CFR 1.4(d)(4), that I am one of the signatories making the entity status change.

Signature	Name	Registration #
/Farshad Farjami/	Farshad Farjami	41014

GOOGLE EXHIBIT 1002 (Part 1 of 3)
Google v. Headwater
IPR2026-00442



UNITED STATES PATENT AND TRADEMARK OFFICE

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
18/088,450	12/23/2022	Gregory G. Raleigh	RALEP038D1C1C1C1C1	4358

106963 7590 05/14/2024

Headwater Research LLC
C/O Farjami & Farjami LLP
26522 La Alameda Ave., Suite 360
Mission Viejo, CA 92691

EXAMINER	
SALL, EL HADJI MALICK	

ART UNIT	PAPER NUMBER
2457	

NOTIFICATION DATE	DELIVERY MODE
05/14/2024	ELECTRONIC

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

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

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

docketing@farjami.com
ffarjami@farjami.com
patent@headwaterllc.com

APPLICATION NO.	ISSUE DATE	PATENT NO.
18/088,450	14-May-2024	11985155

Headwater Research LLC
C/O Farjami & Farjami LLP
26522 La Alameda Ave., Suite 360
Mission Viejo, CA 92691

EGRANT NOTIFICATION

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

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

UNITED STATES PATENT AND TRADEMARK OFFICE

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

APPLICATION NO.	ISSUE DATE	PATENT NO.	ATTORNEY DOCKET NO.	CONFIRMATION NO.
18/088,450	05/14/2024	11985155	RALEP038D1C1C1C1C1	4358

106963 7590 04/24/2024

Headwater Research LLC
C/O Farjami & Farjami LLP
26522 La Alameda Ave., Suite 360
Mission Viejo, CA 92691

ISSUE NOTIFICATION

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

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

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

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

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

Applicant will be able to obtain more detailed information by accessing the Patent Center (https://patentcenter.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Application Assistance Unit (AAU) of the Office of Patents Stakeholder Experience (OPSE), Stakeholder Support Division (SSD) at (571)-272-4200.

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

Gregory G. Raleigh, Incline Village, NV;
James Lavine, Denver, NC;
Alireza Raissinia, Monte Sereno, CA;
Michael J. Sabin, Sunnyvale, CA;

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

Headwater Research LLC, Tyler, TX;

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

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99) Change(s) applied to document,	Application Number	18088450
	Filing Date	2022-12-23
	First Named Inventor	RALEIGH, GREGORY
	Art Unit	
	Examiner Name	Unknown
	Attorney Docket Number	RALEP038D1C1C1C1C1

/N.B.H./
3/13/2024

/E.M.S/	1	2006012018	WO		02/2006	Sadowsky		☐

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

NON-PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T5
/E.M.S/	1	A. Freier, et al., The Secure Sockets Layer (SSL) Protocol Version 3.0, Internet Engineering Task Force (IETF), Request for Comments: 6101, ISSN: 2070-1721, August 2011, available at https://datatracker.ietf.org/doc/html/rfc6101	☐
	2	M. V. Pedersen, F. H. P. Fitzek, and T. Larsen, "Implementation and Performance Evaluation of Network Coding for Cooperative Mobile Devices," ICC Workshops - 2008 IEEE International Conference on Communications Workshops, Beijing, China: IEEE, May 2008, pp. 91–96. doi: 10.1109/ICCW.2008.22	☐
	3	W. R. Stevens, "TCP/IP Illustrated, Volume 1," 2003, ISBN: 0-13-141155-1 ("Stevens")	☐
	4	Bajaj, et al., IETF RFC 3198, Web Services Policy 1.2 - Framework (WS-Policy), April 25, 2006, downloaded from the internet at https://www.w3.org/Submission/WS-Policy/ on August 29, 2023	☐
	5	Sloman, et. al., "Security and management policy specification." IEEE Network, March/April 2002 pp. 10-19	☐
	6	Lu, et. al., "Comparing system level power management policies." IEEE Design & Test of Computers, March/April 2001 pp. 10-19	☐
	7	Davie, et al., IETF RFC 3246, An Expedited Forwarding PHB (Per-Hop Behavior), March 2002, downloaded from the internet at https://datatracker.ietf.org/doc/html/rfc3246 on September 5, 2023	☐
	8	Excerpts, The New Penguin Dictionary of Computing, by Dick Pountain, 2001	☐

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	18088450
	Filing Date	2022-12-23
	First Named Inventor	RALEIGH, GREGORY
	Art Unit	
	Examiner Name	not yet assigned
	Attorney Docket Number	RALEP038D1C1C1C1C1

/E.M.S/	86	8122128		2012-02-21	Burke, II, Robert M. et al.	
	87	8122249		2012-02-21	Falk, Rainer et al.	
	88	8125897	B2	2012-02-28	Ray et al.	
	89	8126123		2012-02-28	Cai, Yigang et al.	
	90	8126396	B2	2012-02-28	Bennett, James D.	
	91	8126476	B2	2012-02-28	Vardi, Yosef et al.	
	92	8126722		02-2012 ~~2010-02-28~~	ROBB, Terence Alan et al.	
	93	8130793	B2	2012-03-06	Edwards, Stephen K. et al.	
	94	8131256		2012-03-06	MARTTI, Jyrki et al.	
	95	8131281	B1	2012-03-06	Hildner et al.	
	96	8131301	B1	2012-03-06	Ahmed et al.	

Change(s) applied to document, /J.G./ 3/22/2024

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	18088450
	Filing Date	2022-12-23
	First Named Inventor	RALEIGH, GREGORY
	Art Unit	
	Examiner Name	not yet assigned
	Attorney Docket Number	RALEP038D1C1C1C1C1

/E.M.S/	20	9954975	B2	2018-04-24	Raleigh et al.	
	21	9986413	B2	2018-05-29	Raleigh	
	22	RE44412		2013-08-06	Naqvi et al.	
	23	9137744	B2	2015-09-15	Scherzer, et al	
	24	8565766	B2	2013-10-22	Scherzer, et al	
	25					

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

U.S.PATENT APPLICATION PUBLICATIONS

Examiner Initial*	Cite No	Publication Number	Kind Code[1]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
/E.M.S/	1	20140080539	A1	03-2014 ~~2015-09-15~~	Scherzer, et al	

Change(s) applied to document. /J.C./ 3/22/2024

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

FOREIGN PATENT DOCUMENTS

Examiner Initial*	Cite No	Foreign Document Number[3]	Country Code[2]	Kind Code[4]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear	T[5]

FARJAMI & FARJAMI LLP
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fax: (949) 282-1002

ELECTRONIC TRANSMISSION COVER SHEET

Date: April 9, 2024

To: United States Patent and Trademark Office
Examiner: Sall, El Hadji Malick; Art Unit: 2457

Re: **Application Serial No.: 18/088,450**
Filing Date: 12/23/2022; First-Named Inventor: Raleigh
Attorney Docket No.: RALEP038D1C1C1C1C1

From: Farjami & Farjami LLP

Number of pages including the cover sheet: 5

Message:

Enclosed, please find the Issue Fee.

Credit Card payment in the amount of **$480.00** as the required Issue fee is hereby included with this filing.

Authorization is hereby given to the Commissioner to charge any fees associated with this communication or credit any overpayment to Deposit Account No. **50-0731**.

The documents accompanying this electronic transmission contain PRIVILEGED AND CONFIDENTIAL information intended only for use of the individual or entity named above. If you are not the intended recipient, disclosure, copying, distribution or use of the contents of this electronic transmission information is prohibited. If you have received this electronic transmission in error, please immediately notify us by telephone and return the original electronic transmission to us at the above address via U.S. Postal Service. We will reimburse you for all expenses incurred.

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PATENT AND TRADEMARK OFFICE

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ELECTRONIC PAYMENT RECEIPT

APPLICATION #	RECEIPT DATE / TIME	ATTORNEY DOCKET #
18/088,450	04/09/2024 05:10:57 PM Z ET	RALEP038D1C1C1C1C1

Title of Invention

Communications Device with Secure Data Path Processing Agents

Application Information

APPLICATION TYPE	Utility - Nonprovisional Application under 35 USC 111(a)	PATENT #	-
CONFIRMATION #	4358	FILED BY	Evan Gunderman
PATENT CENTER #	65027257	AUTHORIZED BY	Michael Farjami
CUSTOMER #	106963	FILING DATE	12/23/2022
CORRESPONDENCE ADDRESS	-	FIRST NAMED INVENTOR	Gregory G. Raleigh

Payment Information

PAYMENT METHOD	PAYMENT TRANSACTION ID	PAYMENT AUTHORIZED BY
CARD / 5006	E202449H13456431	Evan Gunderman

PRE-AUTHORIZED ACCOUNT	PRE-AUTHORIZED CATEGORY
500731	37 CFR 1.16 (National application filing, search, and examination fees); 37 CFR 1.17 (Patent application and reexamination processing fees); 37 CFR 1.21 (Miscellaneous fees and charges)

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

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

New Applications Under 35 U.S.C. 111

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

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

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

New International Application Filed with the USPTO as a Receiving Office

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

UNITED STATES
PATENT AND TRADEMARK OFFICE

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

ELECTRONIC ACKNOWLEDGEMENT RECEIPT

APPLICATION #	RECEIPT DATE / TIME	ATTORNEY DOCKET #
18/088,450	**04/09/2024 05:10:57 PM Z ET**	**RALEP038D1C1C1C1C1**

Title of Invention

Communications Device with Secure Data Path Processing Agents

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CONFIRMATION #	4358	FILED BY	Evan Gunderman
PATENT CENTER #	65027257	FILING DATE	12/23/2022
CUSTOMER #	106963	FIRST NAMED INVENTOR	Gregory G. Raleigh
CORRESPONDENCE ADDRESS	-	AUTHORIZED BY	Michael Farjami

Documents

TOTAL DOCUMENTS: 2

DOCUMENT		PAGES	DESCRIPTION	SIZE (KB)
RALEP038D1C1C1C1C1_Issue_Fee_Apr_9_24.pdf		5	-	334 KB
RALEP038D1C1C1C1C1_Issue_Fee_Apr_9_24-TRAN.LET.pdf	(1-1)	1	Transmittal Letter	33 KB
RALEP038D1C1C1C1C1_Issue_Fee_Apr_9_24-IFEE.pdf	(2-5)	4	Issue Fee Payment (PTO-85B)	309 KB

Digest

DOCUMENT	MESSAGE DIGEST(SHA-512)
RALEP038D1C1C1C1C1_Issue_Fee_Apr_9_24.pdf	9ACDC9218533A8900A3176F3BD51679EAA7CD10913F03D8F26ABA0111221FD4CC3009C0B26BC5CD45171E7322548CC4154868533C1E162CC72EC473890CB0C95
RALEP038D1C1C1C1C1_Issue_Fee_Apr_9_24-TRAN.LET.pdf	8E3BE36106A79156E479FF09B7F8459950E05FCFF4135E7F07FA21473642E9F9C6D2D7DB51F553DBB7CCB333B922EC4A9168EE9F15170AF1DD0D367D6D9BBED8
RALEP038D1C1C1C1C1_Issue_Fee_Apr_9_24-IFEE.pdf	55C12A8D0957CF6D68453A14F36ED0E867958F850254B9C5380D860A7C0E90BC529E882305D610704B5FBD7DCF9746488261F7D263602D3C459A16AADE4DE96D

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

New Applications Under 35 U.S.C. 111

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

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

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

New International Application Filed with the USPTO as a Receiving Office

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

Attorney Docket No.: RALEP038D1C1C1C1C1

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s): **Raleigh et al.**	Group Art Unit: 2457
Application Serial No.: **18/088,450**	Examiner: Sall, El Hadji Malick
Filed: **12/23/2022**	Notice of Allowance: March 1, 2024
Title: **Communications Device with Secure Data Path Processing Agents**	

ISSUE FEE

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

Dear Sir/Madam:

Enclosed, please find the completed "Issue Fee Transmittal" form and a "**Payment by Credit Card**" in the amount of **$480.00** to cover the issue fee. The drawings filed in the present application have been accepted as formal drawings by the Examiner.

COMMENTS ON STATEMENTS OF REASONS FOR ALLOWANCE

The Applicant recognizes that in accordance with M.P.E.P. § 1302.14, the reasons for allowance provided by the Examiner do not necessarily include all of the reasons why the claims are allowed. The Applicant does not concede that the stated reasons for allowance are the only grounds for patentability of the allowed claims or that any element excluded from the Examiner's Reasons for Allowance is taught or suggested by the art of record.

Further, the Applicant does not concede that all of the elements identified by the Examiner are required to distinguish the prior art of record or to satisfy the requirements of 35 U.S.C. § 112. In addition, the Examiner does not assert, and the Applicant would not agree, that the stated reasons for allowance have any bearing on the patentability of claims in any other applications.

Each dependent claim stands on its own and is allowable based on its own elements or in combination with one or more elements recited in its base claim(s). The combination of elements need not include all of the elements identified in the stated reasons for allowance.

The Commissioner is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number **50-0731**.

An early issuance of the present application is respectfully requested.

Respectfully submitted,
Farjami & Farjami LLP

By: */Farshad Farjami/*
Farshad Farjami, Esq.
Reg. No. 41,014

FARJAMI & FARJAMI LLP
26522 La Alameda Ave., Ste. 360
Mission Viejo, CA 92691
Tel: (949) 282-1000
Fax: (949) 282-1002

CERTIFICATE OF ELECTRONIC TRANSMISSION

I hereby certify that this correspondence is being filed via EFS in United States Patent and Trademark Office, on the date stated below.

April 9, 2024
Date

Evan C. Gunderman — */evan c. gunderman/*
Name — Signature

PART B - FEE(S) TRANSMITTAL

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

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

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

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications. **Because electronic patent issuance may occur shortly after issue fee payment, any desired continuing application should preferably be filed prior to payment of this issue fee in order not to jeopardize copendency.**

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

106963 7590 03/01/2024
Headwater Research LLC
C/O Farjami & Farjami LLP
26522 La Alameda Ave., Suite 360
Mission Viejo, CA 92691

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

Certificate of Mailing or Transmission

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

Evan C. Gunderman	(Typed or printed name)
/Evan C. Gunderman/	(Signature)
April 9, 2024	(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
18/088,450	12/23/2022	Gregory G. Raleigh	RALEP038D1C1C1C1C1	4358

TITLE OF INVENTION: Communications Device with Secure Data Path Processing Agents

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	SMALL	$480	$0.00	$0.00	$480	06/03/2024

EXAMINER	ART UNIT	CLASS-SUBCLASS
SALL, EL HADJI MALICK	2457	455-410000

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

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

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

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

1 Farjami & Farjami LLP
2
3

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

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

(A) NAME OF ASSIGNEE: Headwater Research LLC

(B) RESIDENCE: (CITY and STATE OR COUNTRY): Tyler, TX

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

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

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

☒ Electronic Payment via the USPTO patent electronic filing system ☐ Enclosed check ☐ Non-electronic payment by credit card (Attach form PTO-2038)

☒ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment to Deposit Account No. 50-0731

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

☐ Applicant certifying micro entity status. See 37 CFR 1.29

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

☐ Applicant asserting small entity status. See 37 CFR 1.27

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

☐ Applicant changing to regular undiscounted fee status.

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

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

Authorized Signature /Farshad Farjami/ Date April 9, 2024

Typed or printed name Farshad Farjami Registration No. 41014

Doc code: IDS
Doc description: Information Disclosure Statement (IDS) Filed

PTO/SB/08a (01-22)
Approved for use through 05/31/2024. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (**Not for submission under 37 CFR 1.99)**		
	Application Number	18088450
	Filing Date	2022-12-23
	First Named Inventor	RALEIGH, GREGORY
	Art Unit	
	Examiner Name	not yet assigned
	Attorney Docket Number	RALEP038D1C1C1C1C1

U.S.PATENTS						
Examiner Initial*	Cite No	Patent Number	Kind Code[1]	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
/E.M.S/	1	10002332	B2	2018-06-19	Spong	
	2	10021251	B2	2018-07-10	Aaron et al.	
	3	10021463	B2	2018-07-10	Qiu et al.	
	4	10024948	B2	2018-07-17	Ganick et al.	
	5	10034220	B2	2018-07-24	Silver	
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☐ That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).

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SIGNATURE

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

Signature	/Farshad Farjami/	Date (YYYY-MM-DD)	2023-05-25
Name/Print	Farshad Farjami	Registration Number	41014

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

Privacy Act Statement

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

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

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether the Freedom of Information Act requires disclosure of these record s.

2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.

3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.

4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).

5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.

6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).

7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.

8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspections or an issued patent.

9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

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

APPLICATION NUMBER	FILING or 371(c) DATE	GRP ART UNIT	FIL FEE REC'D	ATTY.DOCKET.NO	TOT CLAIMS	IND CLAIMS
18/088,450	12/23/2022	2457	830	RALEP038D1C1C1C1C1	1	1

CONFIRMATION NO. 4358

REPLACEMENT FILING RECEIPT

106963
Headwater Research LLC
C/O Farjami & Farjami LLP
26522 La Alameda Ave., Suite 360
Mission Viejo, CA 92691

OC00000006963151I

Date Mailed: 03/14/2024

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

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

Inventor(s)

Gregory G. Raleigh, Incline Village, NV;
James Lavine, Denver, NC;
Alireza Raissinia, Monte Sereno, CA;
Michael J. Sabin, Sunnyvale, CA;

Applicant(s)

Headwater Research LLC, Tyler, TX;

Assignment For Published Patent Application

Headwater Research LLC, Tyler, TX

Power of Attorney: The patent practitioners associated with Customer Number 106963

Domestic Priority data as claimed by applicant

This application is a CON of 17/008,031 08/31/2020 PAT 11,665,186
which is a CON of 15/977,731 05/11/2018 PAT 10,771,980
which is a CON of 15/158,522 05/18/2016 PAT 9,980,146
which is a CON of 14/272,274 05/07/2014 ABN
which is a DIV of 13/247,998 09/28/2011 PAT 8,725,123
which claims benefit of 61/389,547 10/04/2010
and claims benefit of 61/387,243 09/28/2010
and claims benefit of 61/387,247 09/28/2010
and claims benefit of 61/407,358 10/27/2010
and claims benefit of 61/418,507 12/01/2010
and claims benefit of 61/418,509 12/01/2010

and claims benefit of 61/420,727 12/07/2010
and claims benefit of 61/422,565 12/13/2010
and claims benefit of 61/422,572 12/13/2010
and claims benefit of 61/422,574 12/13/2010
and claims benefit of 61/435,564 01/24/2011
and claims benefit of 61/472,606 04/06/2011
and is a CIP of 13/134,028 05/25/2011 PAT 8,589,541
which claims benefit of 61/348,022 05/25/2010
and claims benefit of 61/381,159 09/09/2010
and claims benefit of 61/381,162 09/09/2010
and claims benefit of 61/384,456 09/20/2010
and claims benefit of 61/385,020 09/21/2010
and is a CIP of 12/695,019 01/27/2010 PAT 8,275,830
and is a CIP of 12/695,020 01/27/2010 PAT 8,406,748
and is a CIP of 12/694,455 01/27/2010 PAT 8,402,111
and is a CIP of 13/134,005 05/25/2011 PAT 8,635,335
and is a CIP of 12/695,021 01/27/2010 PAT 8,346,225
and said 12/695,019 01/27/2010 claims benefit of 61/264,126 11/24/2009
and claims benefit of 61/270,353 07/06/2009
and said 12/695,020 01/27/2010 claims benefit of 61/275,208 08/25/2009
and claims benefit of 61/237,753 08/28/2009
and said 12/694,455 01/27/2010 claims benefit of 61/264,120 11/24/2009
and said 12/695,021 01/27/2010 claims benefit of 61/252,151 10/15/2009
and claims benefit of 61/252,153 10/15/2009
and is a CIP of 12/380,780 03/02/2009 PAT 8,839,388
which claims benefit of 61/206,354 01/28/2009
and claims benefit of 61/206,944 02/04/2009
and claims benefit of 61/207,393 02/10/2009
and claims benefit of 61/207,739 02/13/2009

Foreign Applications for which priority is claimed (You may be eligible to benefit from the Patent Prosecution Highway program at the USPTO. Please see http://www.uspto.gov for more information.) - None.
Foreign application information must be provided in an Application Data Sheet in order to constitute a claim to foreign priority. See 37 CFR 1.55 and 1.76.

Permission to Access Application via Priority Document Exchange: Yes

Permission to Access Search Results: Yes

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

If Required, Foreign Filing License Granted: 01/17/2023

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 18/088,450**

Projected Publication Date: 04/27/2023

Non-Publication Request: No

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

Title

Communications Device with Secure Data Path Processing Agents

Preliminary Class

455

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

PROTECTING YOUR INVENTION OUTSIDE THE UNITED STATES

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

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

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

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

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

LICENSE FOR FOREIGN FILING UNDER

Title 35, United States Code, Section 184

Title 37, Code of Federal Regulations, 5.11 & 5.15

GRANTED

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

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

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

NOT GRANTED

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

SelectUSA

The United States represents the largest, most dynamic marketplace in the world and is an unparalleled location for business investment, innovation, and commercialization of new technologies. The U.S. offers tremendous resources and advantages for those who invest and manufacture goods here. Through SelectUSA, our nation works to promote and facilitate business investment. SelectUSA provides information assistance to the international investor community; serves as an ombudsman for existing and potential investors; advocates on behalf of U.S. cities, states, and regions competing for global investment; and counsels U.S. economic development organizations on investment attraction best practices. To learn more about why the United States is the best country in the world to develop technology, manufacture products, deliver services, and grow your business, visit http://www.SelectUSA.gov or call +1-202-482-6800.



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UNITED STATES DEPARTMENT OF COMMERCE
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NOTICE OF ALLOWANCE AND FEE(S) DUE

106963 7590 03/01/2024

Headwater Research LLC
C/O Farjami & Farjami LLP
26522 La Alameda Ave., Suite 360
Mission Viejo, CA 92691

EXAMINER	
SALL, EL HADJI MALICK	
ART UNIT	PAPER NUMBER
2457	

DATE MAILED: 03/01/2024

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
18/088,450	12/23/2022	Gregory G. Raleigh	RALEP038D1C1C1C1C1	4358

TITLE OF INVENTION: Communications Device with Secure Data Path Processing Agents

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	SMALL	$480	$0.00	$0.00	$480	06/03/2024

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

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

HOW TO REPLY TO THIS NOTICE:

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

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

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

For purposes of this notice, small entity fees are 40% the amount of undiscounted fees, and micro entity fees are 20% the amount of undiscounted fees.

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

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

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

PART B - FEE(S) TRANSMITTAL

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

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

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

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications. **Because electronic patent issuance may occur shortly after issue fee payment, any desired continuing application should preferably be filed prior to payment of this issue fee in order not to jeopardize copendency.**

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

106963 7590 03/01/2024
Headwater Research LLC
C/O Farjami & Farjami LLP
26522 La Alameda Ave., Suite 360
Mission Viejo, CA 92691

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

Certificate of Mailing or Transmission

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

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

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
18/088,450	12/23/2022	Gregory G. Raleigh	RALEP038D1C1C1C1C1	4358

TITLE OF INVENTION: Communications Device with Secure Data Path Processing Agents

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	SMALL	$480	$0.00	$0.00	$480	06/03/2024

EXAMINER	ART UNIT	CLASS-SUBCLASS
SALL, EL HADJI MALICK	2457	455-410000

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

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

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

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

1 _____
2 _____
3 _____

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

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

(A) NAME OF ASSIGNEE (B) RESIDENCE: (CITY and STATE OR COUNTRY)

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

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

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

❑ Electronic Payment via the USPTO patent electronic filing system ❑ Enclosed check ❑ Non-electronic payment by credit card (Attach form PTO-2038)

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

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

❑ Applicant certifying micro entity status. See 37 CFR 1.29
NOTE: Absent a valid certification of Micro Entity Status (see forms PTO/SB/15A and 15B), issue fee payment in the micro entity amount will not be accepted at the risk of application abandonment.

❑ Applicant asserting small entity status. See 37 CFR 1.27
NOTE: If the application was previously under micro entity status, checking this box will be taken to be a notification of loss of entitlement to micro entity status.

❑ Applicant changing to regular undiscounted fee status.
NOTE: Checking this box will be taken to be a notification of loss of entitlement to small or micro entity status, as applicable.

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

Authorized Signature _____ Date _____

Typed or printed name _____ Registration No. _____

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UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
18/088,450	12/23/2022	Gregory G. Raleigh	RALEP038D1C1C1C1C1	4358

106963 7590 03/01/2024

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Mission Viejo, CA 92691

EXAMINER	
SALL, EL HADJI MALICK	
ART UNIT	PAPER NUMBER
2457	

DATE MAILED: 03/01/2024

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

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

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

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

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

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

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

Privacy Act Statement

The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. The United States Patent and Trademark Office (USPTO) collects the information in this record under authority of 35 U.S.C. 2. The USPTO's system of records is used to manage all applicant and owner information including name, citizenship, residence, post office address, and other information with respect to inventors and their legal representatives pertaining to the applicant's/ owner's activities in connection with the invention for which a patent is sought or has been granted. The applicable Privacy Act System of Records Notice for the information collected in this form is COMMERCE/PAT-TM-7 Patent Application Files, available in the Federal Register at 78 FR 19243 (March 29, 2013).
https://www.govinfo.gov/content/pkg/FR-2013-03-29/pdf/2013-07341.pdf

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

1) law enforcement, in the event that the system of records indicates a violation or potential violation of law;
2) a federal, state, local, or international agency, in response to its request;
3) a contractor of the USPTO having need for the information in order to perform a contract;
4) the Department of Justice for determination of whether the Freedom of Information Act (FOIA) requires disclosure of the record;
5) a Member of Congress submitting a request involving an individual to whom the record pertains, when the individual has requested the Member's assistance with respect to the subject matter of the record;
6) a court, magistrate, or administrative tribunal, in the course of presenting evidence, including disclosures to opposing counsel in the course of settlement negotiations;
7) the Administrator, General Services Administration (GSA), or their designee, during an inspection of records conducted by GSA under authority of 44 U.S.C. 2904 and 2906, in accordance with the GSA regulations and any other relevant (i.e., GSA or Commerce) directive, where such disclosure shall not be used to make determinations about individuals;
8) another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c));
9) the Office of Personnel Management (OPM) for personnel research purposes; and
10) the Office of Management and Budget (OMB) for legislative coordination and clearance.

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

Notice of Allowability	Application No. 18/088,450	Applicant(s) Raleigh et al.	
	Examiner EL HADJI SALL	Art Unit 2457	AIA (FITF) Status No

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

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

1. ☑ This communication is responsive to 02/12/2024.
   ☐ 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 2-19 . As a result of the allowed claim(s), you may be eligible to benefit from the **Patent Prosecution Highway** program at a participating intellectual property office for the corresponding application. For more information, please see **http://www.uspto.gov/patents/init_events/pph/index.jsp** or send an inquiry to **PPHfeedback@uspto.gov.**

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

   Certified copies:

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

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

   * Certified copies not received: _____ .

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

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

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

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

Attachment(s)

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

/EL HADJI M SALL/
Primary Examiner, Art Unit 2457

Notice of Pre-AIA or AIA Status

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

Allowable Subject Matter

Claims 2-19 are allowed.

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

The prior art, in combination with all the other limitations of the claims, fail to teach "a communications device comprising: a wide area network port configured to connect the communications device to a wide area network; a secure memory; a secure execution environment configured to be inaccessible to a user application software; and a secure data path processing agent configured to: execute in the secure execution environment; generate a unique identifier for communication to a network element in the wide area network; store the unique identifier in the secure memory; generate a data record; associate the unique identifier with the data record; and send the unique identifier to the network element over a trusted communication link between the secure data path processing agent and the network element," as in claim 2.

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 EL HADJI SALL whose telephone number is (571)272-4010. The examiner can normally be reached on Monday-Friday 8:00-8:30 (flexible).

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

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ario Etienne can be reached on 5712724001. 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 https://ppair-my.uspto.gov/pair/PrivatePair. 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.

/EL HADJI M SALL/
Primary Examiner, Art Unit 2457

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	18/088,450	Raleigh et al.
	Examiner	**Art Unit**
	EL HADJI SALL	2457

CPC						
Symbol					**Type**	**Version**
H04L	/	63	/	1425	F	2013-01-01
H04L	/	41	/	046	I	2013-01-01
H04W	/	12	/	12	I	2013-01-01
H04W	/	12	/	128	I	2021-01-01
G06F	/	21	/	575	A	2013-01-01

CPC Combination Sets							
Symbol					**Type**	**Set**	**Ranking**	**Version**
	/		/					

NONE		Total Claims Allowed:	
(Assistant Examiner)	(Date)	18	
/EL HADJI M SALL/ Primary Examiner, Art Unit 2457	24 February 2024	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	12

U.S. Patent and Trademark Office Part of Paper No.: 20240224

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	18/088,450	Raleigh et al.
	Examiner	**Art Unit**
	EL HADJI SALL	2457

INTERNATIONAL CLASSIFICATION					
CLAIMED					
H04L9/40	/	9	/	40	
H04L41/046	/	41	/	046	
H04W12/12	/	12	/	12	
H04W12/128	/	12	/	128	
G06F21/57	/	21	/	57	

NON-CLAIMED				
	/		/	

US ORIGINAL CLASSIFICATION	
CLASS	**SUBCLASS**

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

NONE		Total Claims Allowed:	
(Assistant Examiner)	(Date)	18	
/EL HADJI M SALL/ Primary Examiner, Art Unit 2457	24 February 2024	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	12

U.S. Patent and Trademark Office Part of Paper No.: 20240224

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	18/088,450	Raleigh et al.
	Examiner	**Art Unit**
	EL HADJI SALL	2457

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

CLAIMS

Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original
/	1	9	10	18	19										
1	2	10	11												
2	3	11	12												
3	4	12	13												
4	5	13	14												
5	6	14	15												
6	7	15	16												
7	8	16	17												
8	9	17	18												

NONE		**Total Claims Allowed:**	
(Assistant Examiner)	(Date)	18	
/EL HADJI M SALL/ Primary Examiner, Art Unit 2457	24 February 2024	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	12

U.S. Patent and Trademark Office Part of Paper No.: 20240224

Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	18/088,450	Raleigh et al.
	Examiner	Art Unit
	EL HADJI SALL	2457

CPC - Searched*		
Symbol	**Date**	**Examiner**
(H04L63/1425 OR H04L41/046 OR H04W12/12 OR H04W12/128 OR G06F21/575 OR G06F21/606 OR G06F21/71 OR H04L12/14 OR H04L12/1403 OR H04L12/1407 OR H04L63/1408 OR H04L63/1433 OR H04M15/41 OR H04M15/47 OR H04M15/48 OR H04M15/66 OR H04M17/10 OR H04L67/02 OR H04L67/61 OR H04L43/08 OR H04L47/20 OR H04L47/2475 OR H04L47/803 OR H04M17/103 OR H04W4/24 OR H04W12/088 OR H04L41/5022 OR H04L41/0894).cpc.	02/24/2024	ES

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

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

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

Search Notes		
Search Notes	**Date**	**Examiner**
Updated Google Scholar Search	02/24/2024	ES
Updated www.ip.com Search	02/24/2024	ES
Updated CPC Search	02/24/2024	ES
Updated PE2E SEARCH	02/24/2024	ES

/EL HADJI M SALL/ Primary Examiner, Art Unit 2457	

Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	18/088,450	Raleigh et al.
	Examiner	Art Unit
	EL HADJI SALL	2457

Interference Search			
US Class/CPC Symbol	US Subclass/CPC Group	Date	Examiner
H04L	41/046	02/24/2024	ES

/EL HADJI M SALL/ Primary Examiner, Art Unit 2457	

Discover HID Analyze communications device comprising:... TIC

1 - 50

1. Communications device with secure data path processing agents

Secure device data records (DDRs) are provided. In some embodiments, a system for secure DDRs includes a processor of a wireless communication device for wireless communication with a wireless network, in which the processor is configured with a secure execution environment, and in which the secure...

HEADWATER RSCH LLC

US11863786 : US Patents : 2023-05-30 : 5

2. **Communications device with secure data path processing agents**

A network system comprising memory configured to store a device communication activity policy, and a policy verification processor configured to (a) receive a device data record over a trusted communication link between the network system and a device data record generator on a communications...

HEADWATER RSCH LLC

US9980146 : US Patents : 2018-05-22 : 5

3. **Communications Device with Secure Data Path Processing Agents**

A network system comprising memory configured to store a device communication activity policy, and a policy verification processor configured to (a) receive a device data record over a trusted communication link between the network system and a device data record generator on a communications...

HEADWATER RSCH LLC

US20170099604 : US Applications : 2017-04-06 : 5

Relevance

Publication Date

1936

First Cur Assignees by Relevanc

More V

Result 1

PE2E SEARCH - Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	British Equivalents	Time Stamp
L1	148938	(H04L63/1425 OR H04L41/046 OR H04W12/12 OR H04W12/128 OR G06F21/575 OR G06F21/606 OR G06F21/71 OR H04L12/14 OR H04L12/1403 OR H04L12/1407 OR H04L63/1408 OR H04L63/1433 OR H04M15/41 OR H04M15/47 OR H04M15/48 OR H04M15/66 OR H04M17/10 OR H04L67/02 OR H04L67/61 OR H04L43/08 OR H04L47/20 OR H04L47/2475 OR H04L47/803 OR H04M17/103 OR H04W4/24 OR H04W12/088 OR H04L41/5022 OR H04L41/0894).cpc.	(US-PGPUB; USPAT)	OR	ON	ON	2024/01/27 11:49 AM
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		"9609544" OR "9615192" OR "9634850" OR "9642004" OR "9648022" OR "9673996" OR "9680658" OR "9681003" OR "9691082" OR "9712443" OR "9712476" OR "9749899" OR "9755842" OR "9766873" OR "9852426" OR "9923790" OR "9942796" OR "9954975" OR "9986413" OR "RE44412").pn.					
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L13	757161	(wan (wide ADJ area ADJ network)) SAME (connect$6 establish$6)	(US-PGPUB; USPAT)	OR	ON	ON	2024/01/27 02:28 PM
L14	18	13 AND 12	(US-PGPUB; USPAT)	OR	ON	ON	2024/01/27 02:28 PM
L16	0	14 AND @ad<"20090204"	(US-PGPUB; USPAT)	OR	ON	ON	2024/01/27 02:45 PM
L17	42501	secure WITH memory AND user WITH application AND secure WITH data	(US-PGPUB; USPAT)	OR	ON	ON	2024/01/27 02:46 PM

L18	14431	17 AND 13	(US-PGPUB; USPAT)	OR	ON	ON	2024/01/27 02:47 PM
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L20	5545	19 AND 18	(US-PGPUB; USPAT)	OR	ON	ON	2024/01/27 02:48 PM
L21	5023	(id identifier) WITH network WITH (wan (wide ADJ area ADJ network))	(US-PGPUB; USPAT)	OR	ON	ON	2024/01/27 02:49 PM
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L23	13	22 AND @ad<"20090204"	(US-PGPUB; USPAT)	OR	ON	ON	2024/01/27 02:49 PM
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L40	529592	(wan (wide ADJ area ADJ network)) WITH (connect$6 establish$6)	(US-PGPUB; USPAT)	OR	ON	ON	2024/01/27 03:22 PM
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L42	147	41 AND 1	(US-PGPUB; USPAT)	OR	ON	ON	2024/01/27 03:23 PM
L43	0	42 AND 10	(US-PGPUB; USPAT)	OR	ON	ON	2024/01/27 03:23 PM
L46	1	42 AND 11	(US-PGPUB; USPAT)	OR	ON	ON	2024/01/27 03:24 PM
L47	568982	(communication SAME device SAME (wan (wide ADJ area ADJ network)))	(US-PGPUB; USPAT)	OR	ON	ON	2024/01/27 03:28 PM
L48	2602	(id identiifier) SAME trusted WITH	(US-PGPUB; USPAT)	OR	ON	ON	2024/01/27 03:29 PM

		(communication link connect$6)					
L49	709	47 AND 48	(US-PGPUB; USPAT)	OR	ON	ON	2024/01/27 03:29 PM
L50	2	49 AND 12	(US-PGPUB; USPAT)	OR	ON	ON	2024/01/27 03:29 PM
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L53	2	("11665186" "10771980") .pn.	(US-PGPUB; USPAT)	OR	ON	ON	2024/01/27 04:57 PM

PE2E SEARCH - Search History (Interference)

There are no Interference searches to show.

Bibliographic Data

Application No: 18/088,450

Foreign Priority claimed: ○ Yes ◉ No

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

Verified and Acknowledged: /EL HADJI M SALL/ (Examiner's Signature) | ES (Initials)

Title: Communications Device with Secure Data Path Processing Agents

FILING or 371(c) DATE	CLASS	GROUP ART UNIT	ATTORNEY DOCKET NO.
12/23/2022	455	2457	
RULE			

APPLICANTS

Headwater Research LLC, Tyler, TX, UNITED STATES

INVENTORS

Gregory G. Raleigh, Incline Village, CA, UNITED STATES

James Lavine,

Alireza Raissinia,

Michael J. Sabin,

CONTINUING DATA

This application is a CON of 17008031 08/31/2020 PAT 11665186

17008031 is a CON of 15977731 05/11/2018 PAT 10771980

15977731 is a CON of 15158522 05/18/2016 PAT 9980146

15158522 is a CON of 14272274 05/07/2014ABN

14272274 is a DIV of 13247998 09/28/2011 PAT 8725123

13134028 is a CIP of 13134005 05/25/2011 PAT 8635335

13247998 is a CIP of 13134028 05/25/2011 PAT 8589541

13247998 has PRO of 61472606 04/06/2011

13247998 has PRO of 61435564 01/24/2011

13247998 has PRO of 61422574 12/13/2010

13247998 has PRO of 61422572 12/13/2010

13247998 has PRO of 61422565 12/13/2010

13247998 has PRO of 61420727 12/07/2010

13247998 has PRO of 61418509 12/01/2010

13247998 has PRO of 61418507 12/01/2010

13247998 has PRO of 61407358 10/27/2010

13247998 has PRO of 61389547 10/04/2010

13247998 has PRO of 61387243 09/28/2010

13247998 has PRO of 61387247 09/28/2010

13134028 has PRO of 61385020 09/21/2010

13134028 has PRO of 61384456 09/20/2010

13134028 has PRO of 61381162 09/09/2010

13134028 has PRO of 61381159 09/09/2010

13134028 has PRO of 61348022 05/25/2010

13134028 is a CIP of 12695019 01/27/2010 PAT 8275830

13134028 is a CIP of 12695020 01/27/2010 PAT 8406748

13134028 is a CIP of 12695021 01/27/2010 PAT 8346225

13134028 is a CIP of 12694455 01/27/2010 PAT 8402111

12695019 has PRO of 61264126 11/24/2009

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12695021 has PRO of 61252151 10/15/2009

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12695020 has PRO of 61237753 08/28/2009

12695020 has PRO of 61275208 08/25/2009

12695019 has PRO of 61270353 07/06/2009

12695021 is a CIP of 12380780 03/02/2009 PAT 8839388

12380780 has PRO of 61207739 02/13/2009

12380780 has PRO of 61207393 02/10/2009

12380780 has PRO of 61206944 02/04/2009

12380780 has PRO of 61206354 01/28/2009

FOREIGN APPLICATIONS

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01/17/2023

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An architecture for intrusion detection using autonomous **agents**
JS Balasubramaniyan… - … computer security …, 1998 - ieeexplore.ieee.org
… **only** by the operating **system**, and not by other **process**). … boundaries **between** host-based and **network**based IDSs. … to manage buffers and other **associated** tasks. This model could also …
☆ Save 99 Cite Cited by 887 Related articles All 25 versions

The Internet of Things vision: Key features, applications and open issues
E Borgia - Computer Communications, 2014 - Elsevier
… The economic value **associated** with the CPS will also be … potential to enhance comfort, **security** and control of our lives. A … technology for gathering and **processing data** in a large variety …
☆ Save 99 Cite Cited by 1940 Related articles All 5 versions

The internet of things: A survey
L Atzori, A Iera, G Morabito - Computer networks, 2010 - Elsevier
… creating and editing **location** information **associated** to RFID … **network element**, called **agent**, that maps the RFID **identifier** (… , the **connection** setup phase involves **data** to be **processed** …
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Anonymous **connections** and onion routing
MG Reed, PF Syverson… - … areas in Communications, 1998 - ieeexplore.ieee.org
… available **system**, onion routing, can be used to **protect** a … track of **processed** onions longer than necessary. Also, since … **connection**, and then builds a **data** structure **associated** with that …
☆ Save 99 Cite Cited by 1606 Related articles All 31 versions

Intrusion detection in wireless ad hoc **networks**
A Mishra, K Nadkarni, A Patcha - … wireless communications, 2004 - ieeexplore.ieee.org
… In traditional wireless **networks**, mobile devices **associate** … and the use of mobile **agents** to **process data** at the source to … Inter-**IDS agent communication security** is another area in …
☆ Save 99 Cite Cited by 647 Related articles All 9 versions

Delay-tolerant **networking**: an approach to interplanetary internet
S Burleigh, A Hooke, L Torgerson, K Fall… - … Communications …, 2003 - ieeexplore.ieee.org
… updates from **agents** at various locations in the **network**. Most … be taciturn even at the cost of some **processing** complexity. … and Inter**net**-related **data** packet and **security** technologies. He …
☆ Save 99 Cite Cited by 1529 Related articles All 17 versions

Host **identity** protocol (HIP): Connectivity, mobility, multi-homing, **security**, and privacy **over** IPv4 and IPv6 **networks**
P Nikander, A Gurtov… - IEEE Communications …, 2010 - ieeexplore.ieee.org
… **networking** architecture and an **associated** set of protocols, developed … However, to distribute the Home **Agent** functionality **over** a … Now, in a **communications system** the main function of …
☆ Save 99 Cite Cited by 196 Related articles All 23 versions

Secure routing in wireless sensor **networks**: Attacks and countermeasures
C Karlof, D Wagner - Ad hoc networks, 2003 - Elsevier
… have high-quality **communications links** available for coordinating … to the base station that originally advertised the **associated** … , it sends an **agent** on a random walk **through** the **network**. …
☆ Save 99 Cite Cited by 4930 Related articles All 71 versions

Blockchain-enabled tripartite anonymous **identification trusted** service provisioning in industrial IoT

H Yang, B Bao, C Li, Q Yao, A Yu… - IEEE Internet of Things …, 2021 - ieeexplore.ieee.org

… in this article is **processed** in a realistic testbed, including the **data** plane, control … The PUs and protocol **agents** are achieved by the plenty of virtual … , and **communication system security**. …

☆ Save 99 Cite Cited by 36 Related articles

Security in software defined **networks**: A survey

I Ahmad, S Namal, M Ylianttila… - IEEE Communications …, 2015 - ieeexplore.ieee.org

… with actions **associated** with each flow for **processing** the flows … of the costs **associated** with **security** solutions used in SDN. … daemon that collects alert **data** from the Snort **agent**, an alert …

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26522 La Alameda Avenue, Suite 360
Mission Viejo, California 92691
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fax: (949) 282-1002

ELECTRONIC TRANSMISSION COVER SHEET

Date: February 12, 2024

To: United States Patent and Trademark Office
Examiner: Sall, El Hadji Malick; Art Unit: 2457

Re: **Application Serial No.: 18/088,450**
Filing Date: 12/23/2022; First-Named Inventor: Raleigh
Attorney Docket No.: RALEP038D1C1C1C1C1

From: Farjami & Farjami LLP

Number of pages including the cover sheet: 8

Message:

Enclosed, please find the Amendment and Response to Non-Final Office Action, dated February 1, 2024.

Authorization is hereby given to the Commissioner to charge any fees associated with this communication or credit any overpayment to Deposit Account **50-0731**.

Thank you.

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ELECTRONIC ACKNOWLEDGEMENT RECEIPT

APPLICATION #	RECEIPT DATE / TIME	ATTORNEY DOCKET #
18/088,450	**02/12/2024 02:32:25 PM Z ET**	**RALEP038D1C1C1C1C1**

Title of Invention

Communications Device with Secure Data Path Processing Agents

Application Information

APPLICATION TYPE	Utility - Nonprovisional Application under 35 USC 111(a)	PATENT #	-
CONFIRMATION #	4358	FILED BY	Evan Gunderman
PATENT CENTER #	64291040	FILING DATE	12/23/2022
CUSTOMER #	106963	FIRST NAMED INVENTOR	Gregory G. Raleigh
CORRESPONDENCE ADDRESS	-	AUTHORIZED BY	Michael Farjami

Documents

TOTAL DOCUMENTS: 2

DOCUMENT		PAGES	DESCRIPTION	SIZE (KB)
RALEP038D1C1C1C1C1_Resp_to_Non_Final_OA_Feb_12_24.pdf		8	-	62 KB
RALEP038D1C1C1C1C1_Resp_to_Non_Final_OA_Feb_12_24-TRAN.LET.pdf	(1-1)	1	Transmittal Letter	30 KB
RALEP038D1C1C1C1C1_Resp_to_Non_Final_OA_Feb_12_24-A....pdf	(2-8)	7	Amendment/Request for Reconsideration-After Non-Final Rejection	43 KB

Digest

DOCUMENT	MESSAGE DIGEST(SHA-512)

RALEP038D1C1C1C1C1_Resp_to_Non_Final_OA_Feb_12_24.pdf	29137B28A3446A8FE1A56FF41A662DD975E5668A3B25588CCE7EB91588DDF580A08F4B7CB2C5043B4B13B1913ABBCAF7627759F2D051E53FC4DA09EB9D3EB5C9
RALEP038D1C1C1C1C1_Resp_to_Non_Final_OA_Feb_12_24-TRAN.LET.pdf	DD7464C539FADFCBC21FEA5BF7DA585F5592793F68F9AAF1BEEE2A2DB8B613C28F7E7D9621F3DE88076EF4BB4F3EACE667F6A99F05FF4B0C197478AB9113DDD2
RALEP038D1C1C1C1C1_Resp_to_Non_Final_OA_Feb_12_24-A....pdf	56540183FD6F80D85C2075B3B793E937BE5B5788C016E2B9BD239778F4766EA34D67D68A510343883E78AE8AD467102067B0B98B468406911B764A72618EB654

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New Applications Under 35 U.S.C. 111

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

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

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

New International Application Filed with the USPTO as a Receiving Office

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

Application Serial No.: 18/088,450
Attorney Docket No.: RALEP038D1C1C1C1C1

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s): **Raleigh et al.** Application Serial No.: **18/088,450** Filed: **12/23/2022** Title: **Communications Device with Secure Data Path Processing Agents**	Group Art Unit: 2457 Examiner: Sall, El Hadji Malick

AMENDMENT AND RESPONSE TO *NON-FINAL* OFFICE ACTION

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

Dear Sir/Madam:

This is in response to the *Non-Final* Office Action, dated February 1, 2024, in the above-referenced patent application. Please enter and consider the following amendments and remarks.

The Commissioner is hereby authorized to charge payment of any additional fees associated with this communication, or credit any overpayment to Deposit Account No. 50-0731.

List of Claims:

Claim 1 (Cancelled)

Claim 2 (Previously Presented): A communications device comprising:

a wide area network port configured to connect the communications device to a wide area network;

a secure memory;

a secure execution environment configured to be inaccessible to a user application software; and

a secure data path processing agent configured to:

execute in the secure execution environment;

generate a unique identifier for communication to a network element in the wide area network;

store the unique identifier in the secure memory;

generate a data record;

associate the unique identifier with the data record; and

send the unique identifier to the network element over a trusted communication link between the secure data path processing agent and the network element.

Claim 3 (Previously Presented): The communications device of claim 2, wherein the secure data path processing agent includes a device data record mailbox, wherein the device data record mailbox is configured to relay the data record to an agent outside of the secure execution environment for transmission to the network element.

Claim 4 (Previously Presented): The communications device of claim 2, further comprising:

a subscriber identity module (SIM), wherein at least a portion of the SIM is within the secure execution environment.

Claim 5 (Previously Presented): The communications device of claim 4, wherein the secure data path processing agent resides on the SIM.

Claim 6 (Previously Presented): The communications device of claim 5, wherein the secure data path processing agent includes a data path security verifier.

Claim 7 (Previously Presented): The communications device of claim 2, further comprising:

an applications processor unit within the secure execution environment.

Claim 8 (Previously Presented): The communications device of claim 7, wherein the secure data path processing agent resides within the applications processor unit.

Claim 9 (Previously Presented): The communications device of claim 8, wherein the secure data path processing agent includes a data path security verifier in a wireless modem chipset of the communications device.

Claim 10 (Previously Presented): The communications device of claim 9, wherein the data path security verifier restricts network access to allow only monitored device data communications activity.

Claim 11 (Currently Amended): A method for use by a communications device including a wide area network port configured to connect the communications device to a wide area network, and further including a secure memory, a secure execution environment configured to be inaccessible to a user application software, and a secure data path processing agent, the method comprising:

executing **[[, by]]** the secure data path processing agent **[[,]]** in the secure execution environment;

generating, by the secure data path processing agent, a unique identifier for communication to a network element in the wide area network;

storing, by the secure data path processing agent, the unique identifier in the secure memory;

generating, by the secure data path processing agent, a data record;

associating, by the secure data path processing agent, the unique identifier with the data record; and

sending, by the secure data path processing agent, the unique identifier to the network element over a trusted communication link between the secure data path processing agent and the network element.

Claim 12 (Previously Presented): The method of claim 11, wherein the secure data path processing agent includes a device data record mailbox, and wherein the method further comprises:

relaying, using the device data record mailbox, the data record to an agent outside of the secure execution environment for transmission to the network element.

Claim 13 (Currently Amended): The method of claim 11, **wherein** the communications device further includes a subscriber identity module (SIM), and wherein at least a portion of the SIM is within the secure execution environment.

Claim 14 (Previously Presented): The method of claim 13, wherein the secure data path processing agent resides on the SIM.

Claim 15 (Previously Presented): The method of claim 14, wherein the secure data path processing agent includes a data path security verifier.

Claim 16 (Previously Presented): The method of claim 11, wherein the communications device further includes an applications processor unit within the secure execution environment.

Claim 17 (Previously Presented): The method of claim 16, wherein the secure data path processing agent resides within the applications processor unit.

Claim 18 (Previously Presented): The method of claim 17, wherein the secure data path processing agent includes a data path security verifier in a wireless modem chipset of the communications device.

Claim 19 (Previously Presented): The method of claim 18, further comprising:

restricting, using the data path security verifier, network access to allow only monitored device data communications activity.

REMARKS

The *Non-Final* Office Action, dated February 1, 2024 ("Office Action"), rejected claims 2-19. By the present amendment and response, Applicant amends claims 11 and 13 to correct a few clerical errors. Thus, after the present amendment and response, claims 2-19 are pending in the present application. Applicant respectfully requests allowance of claims 2-19 in view of the following remarks.

A. Non-Statutory Obviousness-Type Double Patenting

The Office Action rejected claims 2-19 of the present application, under non-statutory obviousness-type double patenting, as being unpatentable over claims of U.S. Patent Numbers 10,771,980 and 11,665,186. Applicant respectfully notes that the Office Action has mistakenly listed U.S. Patent Number 11,66**5**,186, as 11,66**4**,186.

On February 12, 2024, Applicant submitted a terminal disclaimer with respect to U.S. Patent Numbers 10,771,980 and 11,665,186 electronically, which was approved. Therefore, Applicant respectfully submits that claims 2-19 are now in condition for allowance.

B. Conclusion

Based on the foregoing reasons, Applicant respectfully requests allowance of claims 2-19 pending in the present application.

The Commissioner is hereby authorized to charge payment of any additional fees associated with this communication, or credit any overpayment to Deposit Account No. 50-0731.

Respectfully Submitted,
FARJAMI & FARJAMI LLP

/Farshad Farjami/
Farshad Farjami
Reg. No. 41,014

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Facsimile: (949) 282-1002

CERTIFICATE OF ELECTRONIC TRANSMISSION

I hereby certify that this correspondence is being filed via EFS in United States Patent and Trademark Office, on the date stated below.

February 12, 2024
Date

Evan C. Gunderman — Name
/evan c. gunderman/ — Signature

Doc Code: DIST.E.File
Description: Electronic Terminal Disclaimer - Filed

PTO/SB/25

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TERMINAL DISCLAIMER TO OBVIATE A DOUBLE PATENTING REJECTION OVER A PRIOR PATENT

APPLICATION #	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET #
18088450	**12/23/2022**	**Gregory Raleigh**	**RALEP038D1C1C1C1C1**

Title of Invention

Communications Device with Secure Data Path Processing Agents

✓	Filing of terminal disclaimer does not obviate requirement for response under 37 CFR 1.111 to outstanding Office Action
✓	This electronic Terminal Disclaimer is not being used for a Joint Research Agreement.

Owner	Percent interest
Headwater Research LLC	100%
Total	**100%**

The owner(s) of percent interest listed above in the instant application hereby disclaims, except as provided below, the terminal part of the statutory term of any patent granted on the instant application which would extend beyond the expiration date of the full statutory term of any patent granted on pending reference Application Number(s)

Application #	Filing Date

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In making the above disclaimer, the owner does not disclaim the terminal part of any patent granted on the instant application that would extend to the expiration date of the full statutory term of any patent granted on said reference application, "as the term of any patent granted on said reference application may be shortened by any terminal disclaimer filed prior to the grant of any patent on the pending reference application," in the event that any such patent granted on the pending reference application: expires for failure to pay a maintenance fee, is held unenforceable, is found invalid by a court of competent jurisdiction, is statutorily disclaimed in whole or terminally disclaimed under 37 CFR 1.321, has all claims canceled by a reexamination certificate, is reissued, or is in any manner terminated prior to the expiration of its full statutory term as shortened by any terminal disclaimer filed prior to its grant.

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Patent #
10771980
11665186

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- expires for failure to pay a maintenance fee;
- is held unenforceable;
- is found invalid by a court of competent jurisdiction;
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Terminal disclaimer fee under 37 CFR 1.20(d) included with Electronic Terminal Disclaimer request.

Applicant claims the following entity status:
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I hereby declare that all statements made herein of my own knowledge are true and that all statemnts 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.

I certify, in accordance with 37 CFR 1.4(d)(4) that I am: An attorney or agent registered to practice before the Patent and Trademark Office who is of record in this application

Signature	Name	Registration #
/Farshad Farjami/	Farshad Farjami	41014

---

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

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APPROVAL LETTER

APPLICATION #	FILING DATE	APPLICANT/PATENT UNDER REEXAMINATION
18/088,450	12/23/2022	Gregory Raleigh

Title of Invention

Communications Device with Secure Data Path Processing Agents

Electronic terminal disclaimer filed on 02/12/2024

Approved

This patent is subject to a Terminal Disclaimer

Approved / Disapproved by: Electronic Terminal Disclaimer automatically approved

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ELECTRONIC ACKNOWLEDGEMENT RECEIPT

APPLICATION #	RECEIPT DATE / TIME	ATTORNEY DOCKET #
18/088,450	**02/12/2024 12:51:42 PM Z ET**	**RALEP038D1C1C1C1C1**

Title of Invention

Communications Device with Secure Data Path Processing Agents

Application Information

APPLICATION TYPE	Utility - Nonprovisional Application under 35 USC 111(a)	PATENT #	-
CONFIRMATION #	4358	FILED BY	Farshad Farjami
PATENT CENTER #	64288572	FILING DATE	12/23/2022
CUSTOMER #	106963	FIRST NAMED INVENTOR	Gregory G. Raleigh
CORRESPONDENCE ADDRESS	-	AUTHORIZED BY	-

Documents

TOTAL DOCUMENTS: 2

DOCUMENT	PAGES	DESCRIPTION	SIZE (KB)
petition-request.pdf	3	Terminal Disclaimer-Filed (Electronic)	44 KB
grantLetter.pdf	1	Terminal Disclaimer-Electronic-Approved	18 KB

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DOCUMENT	MESSAGE DIGEST(SHA-512)
petition-request.pdf	3B08BC83FBF61E3E818F592CF8FED7703D7A60730AE40DCF57C9020C5BE78EA20140EC2EC95F0ECEFF2C10087B818F33F4660622D1D95127F63A5AD57F710D9A
grantLetter.pdf	27791F940D6ADE8259D79CBC913E2DEF619C67370CD669481

C260E54E246B2EEF6436996C65E3749C9B0810EBE179470744
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New International Application Filed with the USPTO as a Receiving Office

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APPLICATION #	RECEIPT DATE / TIME	ATTORNEY DOCKET #
18/088,450	**02/12/2024 12:51:42 PM Z ET**	**RALEP038D1C1C1C1C1**

Title of Invention

Communications Device with Secure Data Path Processing Agents

Application Information

APPLICATION TYPE	Utility - Nonprovisional Application under 35 USC 111(a)	PATENT #	-
CONFIRMATION #	4358	FILED BY	Farshad Farjami
PATENT CENTER #	64288572	AUTHORIZED BY	-
CUSTOMER #	106963	FILING DATE	12/23/2022
CORRESPONDENCE ADDRESS	-	FIRST NAMED INVENTOR	Gregory G. Raleigh

Payment Information

PAYMENT METHOD	PAYMENT TRANSACTION ID	PAYMENT AUTHORIZED BY
CARD / 5006	**E20242BC52426642**	**Farshad Farjami**

FEE CODE	DESCRIPTION	ITEM PRICE($)	QUANTITY	ITEM TOTAL($)
2814	STATUTORY DISCLAIMER, INCLUDING TERMINAL DISCLAIMER	170.00	1	170.00
			TOTAL AMOUNT:	**$170.00**

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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

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APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
18/088,450	12/23/2022	Gregory G. Raleigh	RALEP038D1C1C1C1C1

CONFIRMATION NO. 4358

106963
Headwater Research LLC
C/O Farjami & Farjami LLP
26522 La Alameda Ave., Suite 360
Mission Viejo, CA 92691

POA ACCEPTANCE LETTER

OC000000068144472

Date Mailed: 02/12/2024

NOTICE OF ACCEPTANCE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 02/02/2024.

The Power of Attorney in this application is accepted. Correspondence in this application will be mailed to the above address as provided by 37 CFR 1.33.

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

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PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875	Application or Docket Number 18/088,450	Filing Date 12/23/2022	☐ To be Mailed

ENTITY: ☐ LARGE ☑ SMALL ☐ MICRO

APPLICATION AS FILED - PART I

FOR	(Column 1) NUMBER FILED	(Column 2) NUMBER EXTRA		RATE ($)	FEE ($)
☐ BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A		N/A	
☐ SEARCH FEE (37 CFR 1.16(k), (i), or (m))	N/A	N/A		N/A	
☐ EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A		N/A	
TOTAL CLAIMS (37 CFR 1.16(i))	minus 20 =	*		x $50 =	
INDEPENDENT CLAIMS (37 CFR 1.16(h))	minus 3 =	*		x $240 =	
☐ APPLICATION SIZE FEE (37 CFR 1.16(s))	If the specification and drawings exceed 100 sheets of paper, the application size fee due is $310 ($155 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).				
☐ MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))					
* If the difference in column 1 is less than zero, enter "0" in column 2.				TOTAL	

APPLICATION AS AMENDED - PART II

		(Column 1) CLAIMS REMAINING AFTER AMENDMENT		(Column 2) HIGHEST NUMBER PREVIOUSLY PAID FOR	(Column 3) PRESENT EXTRA		RATE ($)	ADDITIONAL FEE ($)
AMENDMENT	02/12/2024							
	Total (37 CFR 1.16(i))	* 18	Minus	** 20	= 0		x $40 =	0
	Independent (37 CFR 1.16(h))	* 2	Minus	*** 3	= 0		x $192 =	0
	☐ Application Size Fee (37 CFR 1.16(s))							
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							
							TOTAL ADD'L FEE	0

		(Column 1) CLAIMS REMAINING AFTER AMENDMENT		(Column 2) HIGHEST NUMBER PREVIOUSLY PAID FOR	(Column 3) PRESENT EXTRA		RATE ($)	ADDITIONAL FEE ($)
AMENDMENT								
	Total (37 CFR 1.16(i))	*	Minus	**	=		x $0 =	
	Independent (37 CFR 1.16(h))	*	Minus	***	=		x $0 =	
	☐ Application Size Fee (37 CFR 1.16(s))							
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							
							TOTAL ADD'L FEE	

* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.	Program Support Specialist
** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".	/DEREK A SAUNDERS/
*** 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 number found in the appropriate box in column 1.	

This collection of information is required by 37 CFR 1.16. 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, 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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ELECTRONIC ACKNOWLEDGEMENT RECEIPT

APPLICATION #	RECEIPT DATE / TIME	ATTORNEY DOCKET #
18/088,450	**02/02/2024 03:15:02 PM Z ET**	**RALEP038D1C1C1C1C1**

Title of Invention

Communications Device with Secure Data Path Processing Agents

Application Information

APPLICATION TYPE	Utility - Nonprovisional Application under 35 USC 111(a)	PATENT #	-
CONFIRMATION #	4358	FILED BY	Evan Gunderman
PATENT CENTER #	64192053	FILING DATE	12/23/2022
CUSTOMER #	106963	FIRST NAMED INVENTOR	Gregory G. Raleigh
CORRESPONDENCE ADDRESS	-	AUTHORIZED BY	Michael Farjami

Documents

TOTAL DOCUMENTS: 2

DOCUMENT		PAGES	DESCRIPTION	SIZE (KB)
RALEP038D1C1C1C1C1_POA_Feb_2_24.pdf		3	-	899 KB
RALEP038D1C1C1C1C1_POA_Feb_2_24-TRAN.LET.pdf	(1-1)	1	Transmittal Letter	28 KB
RALEP038D1C1C1C1C1_POA_Feb_2_24-PA...pdf	(2-3)	2	Power of Attorney	865 KB

Digest

DOCUMENT	MESSAGE DIGEST(SHA-512)
RALEP038D1C1C1C1C1_POA	2EF5F04CDF743AADC21BBA8E525A92424F48395D46C73D46

_Feb_2_24.pdf	BAFE7990FFECE5B4A7FDB6ACC39F391DC94E8456FCD44167FAF0F6409B12FADFDDC656FF0B623E98
RALEP038D1C1C1C1C1_POA_Feb_2_24-TRAN.LET.pdf	58E43026C66ACC33CE3566897FCB7DC22195EE1AC17D525AA1789DC731E8570179AE6847E4D161D3110564EE9524E32DD6A673B9EA57E18C10CA3DDBAD2E7267
RALEP038D1C1C1C1C1_POA_Feb_2_24-PA...pdf	5FB2213E313E2BB4DE3064CA530EB49AE99854FA9552E1F701B52C5370E7FD002C121F004519C5DAB6A833DB4FABA73A4D80F2FDC6CF9C160CACA7302DCB1154

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

New Applications Under 35 U.S.C. 111

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

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

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

New International Application Filed with the USPTO as a Receiving Office

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

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Mission Viejo, California 92691
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fax: (949) 282-1002

ELECTRONIC TRANSMISSION COVER SHEET

Date: February 2, 2024

To: United States Patent and Trademark Office
Examiner: Sall, El Hadji Malick; Art Unit: 2457

Re: **Application Serial No.: 18/088,450**
Filing Date: 12/23/2022; First-Named Inventor: Raleigh
Attorney Docket No.: RALEP038D1C1C1C1C1

From: Farjami & Farjami LLP

Number of pages including the cover sheet: 3

Message:

Enclosed, please find:

1. Transmittal for Power of Attorney (Form PTO/SB/80); and
2. Power of Attorney Document (Form PTO/AIA/82A).

Authorization is hereby given to the Commissioner to charge any fees associated with this communication or credit any overpayment to Deposit Account **50-0731**.

Thank you.

The documents accompanying this electronic transmission contain PRIVILEGED AND CONFIDENTIAL information intended only for use of the individual or entity named above. If you are not the intended recipient, disclosure, copying, distribution or use of the contents of this electronic transmission information is prohibited. If you have received this electronic transmission in error, please immediately notify us by telephone and return the original electronic transmission to us at the above address via U.S. Postal Service. We will reimburse you for all expenses incurred.

PTO/SB/80 (11-08)
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POWER OF ATTORNEY TO PROSECUTE APPLICATIONS BEFORE THE USPTO

I hereby revoke all previous powers of attorney given in the application identified in the attached statement under 37 CFR 3.73(b).

I hereby appoint:

☑ Practitioners associated with the Customer Number: 106963

OR

☐ Practitioner(s) named below (if more than ten patent practitioners are to be named, then a customer number must be used):

Name	Registration Number	Name	Registration Number

as attorney(s) or agent(s) to represent the undersigned before the United States Patent and Trademark Office (USPTO) in connection with any and all patent applications assigned only to the undersigned according to the USPTO assignment records or assignment documents attached to this form in accordance with 37 CFR 3.73(b).

Please change the correspondence address for the application identified in the attached statement under 37 CFR 3.73(b) to:

☑ The address associated with Customer Number: 106963

OR

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

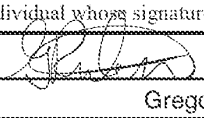
Assignee Name and Address:

Headwater Research LLC
110 North College Avenue, Suite 1116
Tyler, TX 75702

A copy of this form, together with a statement under 37 CFR 3.73(b) (Form PTO/SB/96 or equivalent) is required to be filed in each application in which this form is used. The statement under 37 CFR 3.73(b) may be completed by one of the practitioners appointed in this form if the appointed practitioner is authorized to act on behalf of the assignee, and must identify the application in which this Power of Attorney is to be filed.

SIGNATURE of Assignee of Record

The individual whose signature and title is supplied below is authorized to act on behalf of the assignee

Signature		Date	May 20, 2022
Name	Gregory G. Raleigh	Telephone	(650) 740-4781
Title	Lead Director, Headwater Research LLC		

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

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

PTO/AIA/82A (07-13)
Approved for use through 03/31/2021. OMB 0651-0035
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TRANSMITTAL FOR POWER OF ATTORNEY TO ONE OR MORE REGISTERED PRACTITIONERS

NOTE: This form is to be submitted with the Power of Attorney by Applicant form (PTO/AIA/82B) to identify the application to which the Power of Attorney is directed, in accordance with 37 CFR 1.5, unless the application number and filing date are identified in the Power of Attorney by Applicant form. If neither form PTO/AIA/82A nor form PTO/AIA82B identifies the application to which the Power of Attorney is directed, the Power of Attorney will not be recognized in the application.

Application Number	18/088,450
Filing Date	12/23/2022
First Named Inventor	Raleigh
Title	Communications Device with Secure Data Path Processing Agents
Art Unit	2457
Examiner Name	Sall, El Hadji Malick
Attorney Docket Number	RALEP038D1C1C1C1C1

SIGNATURE of Applicant or Patent Practitioner

Signature	/Farshad Farjami/	Date (Optional)	2/2/2024
Name	Farshad Farjami	Registration Number	41014
Title (if Applicant is a juristic entity)			
Applicant Name (if Applicant is a juristic entity)			

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

☐ *Total of _____ forms are submitted.

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

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
18/088,450	12/23/2022	Gregory G. Raleigh	RALEP038D1C1C1C1C1	4358

106963 7590 02/01/2024

Headwater Research LLC
C/O Farjami & Farjami LLP
26522 La Alameda Ave., Suite 360
Mission Viejo, CA 92691

EXAMINER	
SALL, EL HADJI MALICK	

ART UNIT	PAPER NUMBER
2457	

NOTIFICATION DATE	DELIVERY MODE
02/01/2024	ELECTRONIC

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

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

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

docketing@farjami.com
ffarjami@farjami.com
patent@headwaterllc.com

PTOL-90A (Rev. 04/07)

Office Action Summary	Application No. 18/088,450	Applicant(s) Raleigh et al.	
	Examiner EL HADJI SALL	Art Unit 2457	AIA (FITF) Status No

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

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTHS FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☑ Responsive to communication(s) filed on 12/23/2022.

☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on _____.

2a)☐ This action is **FINAL.** 2b) ☑ This action is non-final.

3)☐ 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.

4)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims*

5) ☑ Claim(s) 2-19 is/are pending in the application.

5a) Of the above claim(s) _____ is/are withdrawn from consideration.

6) ☐ Claim(s) _____ is/are allowed.

7) ☑ Claim(s) 2-19 is/are rejected.

8) ☐ Claim(s) _____ is/are objected to.

9) ☐ Claim(s) _____ are subject to restriction and/or election requirement

* If any claims have been determined allowable, 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.**

Application Papers

10)☐ The specification is objected to by the Examiner.

11)☐ The drawing(s) filed on _____ is/are: a)☐ accepted or b)☐ objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

Priority under 35 U.S.C. § 119

12)☐ 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)).

** See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☑ Notice of References Cited (PTO-892)

2) ☑ Information Disclosure Statement(s) (PTO/SB/08a and/or PTO/SB/08b) Paper No(s)/Mail Date See Continuation Sheet.

3) ☐ Interview Summary (PTO-413) Paper No(s)/Mail Date _____.

4) ☐ Other: _____.

Continuation Sheet (PTOL-326) **Application No.** 18/088,450

Continuation of Attachment(s) 2) Information Disclosure Statement(s) (PTO/SB/08a and/or PTO/SB/08b) Paper No(s)/Mail Date: 01/09/2024; 11/08/2023; 10/19/2023; 0/06/2023; 07/26/2023; 07/07/2023; 05/25/2023.

Notice of Pre-AIA or AIA Status

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

DETAILED ACTION

1. This action is in response to the application filed on December 23, 2022. Claims 2-19 are pending. Claims 2-19 represent COMMUNICATION DEVICE WITH SECURE DATA PATH PROCESSING AGENTS.

Double Patenting

A rejection based on double patenting of the "same invention" type finds its support in the language of 35 U.S.C. 101 which states that "whoever invents or discovers any new and useful process... may obtain a patent therefor..." (Emphasis added). Thus, the term "same invention," in this context, means an invention drawn to identical subject matter. See *Miller v. Eagle Mfg. Co.*, 151 U.S. 186 (1894); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); *In re Ockert*, 245 F.2d 467, 114 USPQ 330 (CCPA 1957).

The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. A nonstatutory double patenting rejection is appropriate where the claims at issue are not identical, but at least one examined application claim is not patentably distinct from the reference claim(s) because the examined application claim is either anticipated by, or would have been obvious over, the reference claim(s). See, e.g., *In re Berg*, 140 F.3d 1428, 46 USPQ2d

1226 (Fed. Cir. 1998); *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); In re Vogel, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) or 1.321(d) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the reference application or patent either is shown to be commonly owned with this application, or claims an invention made as a result of activities undertaken within the scope of a joint research agreement. See MPEP § 717.02 for applications subject to examination under the first inventor to file provisions of the AIA as explained in MPEP § 2159. See MPEP §§ 706.02(l)(1) - 706.02(l)(3) for applications not subject to examination under the first inventor to file provisions of the AIA. A terminal disclaimer must be signed in compliance with 37 CFR 1.321(b).

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

18/088,450	11,664,186	10,771,980
2. A communications device comprising: a wide area network port	1. A communications device comprising: a wide area network port	1. A wireless communications device comprising: an application

configured to connect the communications device to a wide area network; a secure memory; a secure execution environment configured to be inaccessible to a user application software; and a secure data path processing agent configured to: execute in the secure execution environment; generate a unique identifier for communication to a network element in the wide area network; store the unique identifier in the secure memory; generate a data record; associate the unique identifier with the data record; and send the unique identifier to the network element over a trusted communication link between the secure data path processing agent and the network element.	configured to connect the communications device to a wide area network; a memory configured to store a device communication activity policy; a secure execution environment configured to be inaccessible to a user application software; and a secure data path processing agent configured to: execute in the secure execution environment; monitor a device data communications activity, the device data communications activity being through the wide area network port; generate a device data record comprising information about the device data communications activity to assist a network element in determining whether the communications device is operating or has operated in accordance with the device communication activity policy; and send the device data record to the network element over a trusted communication link between the secure data path processing agent and the network element.	execution environment and network stack to provide wireless network access for user application software executing in the application execution environment; a policy enforcement client to implement a device communication activity policy applicable to wireless network access provided for the user application software; a wireless modem chipset in network data path communication with the network stack, the wireless modem chipset including a secure execution environment configured to be inaccessible to the user application software, the secure execution environment including signal processing elements and one or more secure data path processing agents configured to: execute in the secure execution environment, monitor a device data communications activity that utilizes the wireless modem chipset to receive and transmit data passing between the network stack and a wireless network, generate a device data record comprising information about the monitored device data communications activity, the information configured to assist a network element in determining

		whether the wireless communications device is operating or has operated in accordance with the device communication activity policy, and send the device data record to the network element over a trusted communication link between the one or more data path processing agents and the network element; and a trusted data path between the one or more secure data path processing agents and the signal processing elements wide area network port.

2. Claims 2-19 of the instant application are rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claims 1-18 AND 1-10 of U.S. Patent No(s). 11,664,186 and 10,771,980, respectively, issued to Raleigh. Although the conflicting set of claims are not identical, they are not patentably distinct from each other because a comparison between the two set of claims shows that the instant claims 2-19 are anticipated by claims 1-18 and 1-10 of patent(s) ‘186 and ‘980, respectively.

Conclusion

3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to EL HADJI SALL whose telephone number is (571)272-4010. The examiner can normally be reached on Monday-Friday 8:00-8:30 (flexible).

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

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ario Etienne can be reached on 5712724001. 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 https://ppair-my.uspto.gov/pair/PrivatePair. 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.

/EL HADJI M SALL/
Primary Examiner, Art Unit 2457

Notice of References Cited	Application/Control No. 18/088,450	Applicant(s)/Patent Under Reexamination Raleigh et al.	
	Examiner EL HADJI SALL	Art Unit 2457	Page 1 of 1

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date YYYY-MM-DD	Name	CPC Classification	US Classification
*	A	US-8180735-B2	2012-05-15	Ansari; Amir	H04L12/2818	380/255
*	B	US-20100293378-A1	2010-11-18	Xiao; Yuelei	H04L9/3268	713/168
	C					
	D					
	E					
	F					
	G					
	H					
	I					
	J					
	K					
	L					
	M					

FOREIGN PATENT DOCUMENTS

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

NON-PATENT DOCUMENTS

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

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Dates in YYYY-MM-DD format are publication dates. Classifications may be US or foreign.

Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	18/088,450	Raleigh et al.
	Examiner	Art Unit
	EL HADJI SALL	2457

CPC - Searched*		
Symbol	**Date**	**Examiner**
(H04L63/1425 OR H04L41/046 OR H04W12/12 OR H04W12/128 OR G06F21/575 OR G06F21/606 OR G06F21/71 OR H04L12/14 OR H04L12/1403 OR H04L12/1407 OR H04L63/1408 OR H04L63/1433 OR H04M15/41 OR H04M15/47 OR H04M15/48 OR H04M15/66 OR H04M17/10 OR H04L67/02 OR H04L67/61 OR H04L43/08 OR H04L47/20 OR H04L47/2475 OR H04L47/803 OR H04M17/103 OR H04W4/24 OR H04W12/088 OR H04L41/5022 OR H04L41/0894).cpc.	01/27/2024	ES

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

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

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

Search Notes		
Search Notes	**Date**	**Examiner**
Continuity Search	01/27/2024	ES
Inventor Search	01/27/2024	ES
Google Scholar Search	01/27/2024	ES
www.ip.com Search	01/27/2024	ES
CPC Search	01/27/2024	ES
PE2E SEARCH	01/27/2024	ES

/EL HADJI M SALL/ Primary Examiner, Art Unit 2457	

Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	18/088,450	Raleigh et al.
	Examiner	Art Unit
	EL HADJI SALL	2457

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

/EL HADJI M SALL/ Primary Examiner, Art Unit 2457	

Index of Claims	Application/Control No.	Applicant(s)/Patent Under Reexamination
	18/088,450	Raleigh et al.
	Examiner	**Art Unit**
	EL HADJI SALL	2457

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

CLAIMS

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

CLAIM		DATE								
Final	Original	01/27/2024								
	1	-								
	2	✓								
	3	✓								
	4	✓								
	5	✓								
	6	✓								
	7	✓								
	8	✓								
	9	✓								
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	15	✓								
	16	✓								
	17	✓								
	18	✓								
	19	✓								

Doc code: IDS
Doc description: Information Disclosure Statement (IDS) Filed

PTO/SB/08a (01-22)
Approved for use through 05/31/2024. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

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

Application Number	18088450
Filing Date	2022-12-23
First Named Inventor	RALEIGH, GREGORY
Art Unit	
Examiner Name	
Attorney Docket Number	RALEP038D1C1C1C1C1

U.S.PATENTS

Examiner Initial*	Cite No	Patent Number	Kind Code[1]	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1					

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U.S.PATENT APPLICATION PUBLICATIONS

Examiner Initial*	Cite No	Publication Number	Kind Code[1]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
/E.M.S/	1	20100199325	A1	2013-03-05	Raleigh	
/E.M.S/	2	20040098610	A1	2004-05-20	Hrastar, Scott E.	

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

FOREIGN PATENT DOCUMENTS

Examiner Initial*	Cite No	Foreign Document Number[3]	Country Code[2] i	Kind Code[4]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear	T[5]
	1							☐

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

NON-PATENT LITERATURE DOCUMENTS

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	18088450
	Filing Date	2022-12-23
	First Named Inventor	RALEIGH, GREGORY
	Art Unit	
	Examiner Name	
	Attorney Docket Number	RALEP038D1C1C1C1C1

Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T[5]
/E.M.S/	1	Arai, Masato, et al; "A Proposal for an Effective Information Flow Control Model for Sharing and Protecting Sensitive Information", Proc. 7th Australasian Information Security Conference (AISC 2009), Wellington, New Zealand	☐

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

EXAMINER SIGNATURE

Examiner Signature	/EL HADJI M SALL/	Date Considered	01/27/2024

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

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

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	18088450
	Filing Date	2022-12-23
	First Named Inventor	RALEIGH, GREGORY
	Art Unit	
	Examiner Name	
	Attorney Docket Number	RALEP038D1C1C1C1C1

CERTIFICATION STATEMENT

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

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

OR

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

☐ See attached certification statement.

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

☒ A certification statement is not submitted herewith.

SIGNATURE

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

Signature	/Farshad Farjami/	Date (YYYY-MM-DD)	2023-11-08
Name/Print	Farshad Farjami	Registration Number	41014

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

Bibliographic Data

Application No: 18/088,450

Foreign Priority claimed: ○ Yes ◉ No

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

Verified and Acknowledged: /EL HADJI M SALL/ (Examiner's Signature) ES (Initials)

Title: Communications Device with Secure Data Path Processing Agents

FILING or 371(c) DATE	CLASS	GROUP ART UNIT	ATTORNEY DOCKET NO.
12/23/2022	455	2457	
RULE			

APPLICANTS

Headwater Research LLC, Tyler, TX, UNITED STATES

INVENTORS

Gregory G. Raleigh, Incline Village, CA, UNITED STATES

James Lavine, Denver, NC, UNITED STATES

Alireza Raissinia, Monte Sereno, CA, UNITED STATES

Michael J. Sabin, Sunnyvale, CA, UNITED STATES

CONTINUING DATA

This application is a CON of 17008031 08/31/2020 PAT 11665186

17008031 is a CON of 15977731 05/11/2018 PAT 10771980

15977731 is a CON of 15158522 05/18/2016 PAT 9980146

15158522 is a CON of 14272274 05/07/2014ABN

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13134028 is a CIP of 12695019 01/27/2010 PAT 8275830

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12380780 has PRO of 61206354 01/28/2009

FOREIGN APPLICATIONS

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PE2E SEARCH - Search History (Prior Art)

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L18	14431	17 AND 13	(US-PGPUB; USPAT)	OR	ON	ON	2024/01/27 02:47 PM
L19	83110	secure WITH data WITH (path connect$6 establish$6 channel link)	(US-PGPUB; USPAT)	OR	ON	ON	2024/01/27 02:48 PM
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L41	1834	(communication AND device AND (wan (wide ADJ area ADJ network))).ab.	(US-PGPUB; USPAT)	OR	ON	ON	2024/01/27 03:23 PM
L42	147	41 AND 1	(US-PGPUB; USPAT)	OR	ON	ON	2024/01/27 03:23 PM
L43	0	42 AND 10	(US-PGPUB; USPAT)	OR	ON	ON	2024/01/27 03:23 PM
L46	1	42 AND 11	(US-PGPUB; USPAT)	OR	ON	ON	2024/01/27 03:24 PM
L47	568982	(communication SAME device SAME (wan (wide ADJ area ADJ network)))	(US-PGPUB; USPAT)	OR	ON	ON	2024/01/27 03:28 PM
L48	2602	(id identiifier) SAME trusted WITH	(US-PGPUB; USPAT)	OR	ON	ON	2024/01/27 03:29 PM

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L49	709	47 AND 48	(US-PGPUB; USPAT)	OR	ON	ON	2024/01/27 03:29 PM
L50	2	49 AND 12	(US-PGPUB; USPAT)	OR	ON	ON	2024/01/27 03:29 PM
L51	7	49 AND 41	(US-PGPUB; USPAT)	OR	ON	ON	2024/01/27 03:31 PM
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PE2E SEARCH - Search History (Interference)

There are no Interference searches to show.

Doc code: IDS
Doc description: Information Disclosure Statement (IDS) Filed

PTO/SB/08a (01-22)
Approved for use through 05/31/2024. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT
(Not for submission under 37 CFR 1.99)

Application Number	18088450
Filing Date	2022-12-23
First Named Inventor	RALEIGH, GREGORY
Art Unit	OPAP
Examiner Name	NOT YET ASSIGNED
Attorney Docket Number	RALEP038D1C1C1C1C1

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Examiner Initial*	Cite No	Patent Number	Kind Code[1]	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
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	Application Number	18088450
	Filing Date	2022-12-23
	First Named Inventor	RALEIGH, GREGORY
	Art Unit	OPAP
	Examiner Name	NOT YET ASSIGNED
	Attorney Docket Number	RALEP038D1C1C1C1C1

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

☒ A certification statement is not submitted herewith.

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

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Name/Print	Farshad Farjami	Registration Number	41014

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Examiner Signature	/EL HADJI M SALL/	Date Considered	01/27/2024

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
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	First Named Inventor	RALEIGH, GREGORY
	Art Unit	
	Examiner Name	not yet assigned
	Attorney Docket Number	RALEP038D1C1C1C1C1

CERTIFICATION STATEMENT

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

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

OR

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

☐ See attached certification statement.

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

☒ A certification statement is not submitted herewith.

SIGNATURE

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

Signature	/Farshad Farjami/	Date (YYYY-MM-DD)	2023-05-25
Name/Print	Farshad Farjami	Registration Number	41014

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Signature	/Farshad Farjami/	Date (YYYY-MM-DD)	2023-05-24
Name/Print	Farshad Farjami	Registration Number	41014

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/E.M.S/	1	1484871	EP	A1	2004-12-08	Kelz et al.		☐

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	First Named Inventor	RALEIGH, GREGORY
	Art Unit	N/A
	Examiner Name	NOT YET ASSIGNED
	Attorney Docket Number	RALEP038D1C1C1C1C1

/E.M.S/	1	IPR2023-01157: Petition for Inter Partes Review of United States Patent No. 11,405,224, filed July 20, 2023.	☐
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	3	Complaint filed in Headwater Research LLC v. Samsung Electronics Co., Ltd., Samsung Electronics America, Inc., dated October 26, 2022, Case No. 2:22-cv-00422, E.D. Texas.	☐
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/E.M.S/	1	03100581	WO	A2	2003-12-04	Dive-Reclus et al.		☐

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	24	Model-View-Controller", Microsoft Patterns & Practices, March 17, 2014, 9 pages, downloaded from the internet at http://msdn2.microsoft.com/ en-us/library/ms978748.aspx on July 29, 2023	☐
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Name/Print	Farshad Farjami	Registration Number	41014

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E Borgia - Computer Communications, 2014 - Elsevier
… The economic value **associated** with the CPS will also be … potential to enhance comfort, **security** and control of our lives. A … technology for gathering and **processing data** in a large variety …
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JS Balasubramaniyan… - … computer security …, 1998 - ieeexplore.ieee.org
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L Atzori, A Iera, G Morabito - Computer networks, 2010 - Elsevier
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MG Reed, PF Syverson… - … areas in Communications, 1998 - ieeexplore.ieee.org
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A Mishra, K Nadkarni, A Patcha - … wireless communications, 2004 - ieeexplore.ieee.org
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T Tóthfalusi, P Varga - Telecommunication Systems, 2018 - Springer
… Mobile **Telecommunications System** Terrestrial Radio Access … The initial message **between** two User **Agents** never … a Call-ID as well, we can **associate** this ICID to #4 bCDR too, since …
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D Chess, B Grosof, C Harrison, D Levine… - … Communications, 1995 - ieeexplore.ieee.org
… **agent** is **processed** at a server. The sixth section discusses **security** issues, always important in **network** … This **log** may include information **associated** with the **agent**'s arrival, its success …
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DIDS (Distributed Intrusion Detection **System**)--Motivation
SR Snapp, J Brentano, GV Dias, TL Goan… - … Computer Security …, 1991 - books.google.com
… The host **agent** handles all **communications between** the … is to push as much of the **processing** operations down to the low-… , that new session is **associated** with his original NID. Thus the …
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A survey on **security** for mobile devices
M La Polla, F Martinelli… - IEEE communications …, 2012 - ieeexplore.ieee.org
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S Sicari, A Rizzardi, LA Grieco, A Coen-Porisini - Computer networks, 2015 - Elsevier

... a **secure communication system** among different things. ... or more Policy Enforcing **Agents** responsible for enforcing relevant ... development of **secure** and smart life **assistant** applications ...

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/E.M.S/	1	A. Freier, et al., The Secure Sockets Layer (SSL) Protocol Version 3.0, Internet Engineering Task Force (IETF), Request for Comments: 6101, ISSN: 2070-1721, August 2011, available at https://datatracker.ietf.org/doc/html/rfc6101	☐
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CERTIFICATION STATEMENT

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

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

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☐ See attached certification statement.

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

☒ A certification statement is not submitted herewith.

SIGNATURE

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

Signature	/Farshad Farjami/	Date (YYYY-MM-DD)	2023-10-19
Name/Print	Farshad Farjami	Registration Number	41014

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	First Named Inventor	RALEIGH, GREGORY
	Art Unit	
	Examiner Name	not yet assigned
	Attorney Docket Number	RALEP038D1C1C1C1C1

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

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

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☐ See attached certification statement.

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

☒ A certification statement is not submitted herewith.

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

Signature	/Farshad Farjami/	Date (YYYY-MM-DD)	2023-05-25
Name/Print	Farshad Farjami	Registration Number	41014

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	18088450
	Filing Date	2022-12-23
	First Named Inventor	RALEIGH, GREGORY
	Art Unit	
	Examiner Name	not yet assigned
	Attorney Docket Number	RALEP038D1C1C1C1C1

CERTIFICATION STATEMENT

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

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

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☐ See attached certification statement.

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

☒ A certification statement is not submitted herewith.

SIGNATURE

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

Signature	/Farshad Farjami/	Date (YYYY-MM-DD)	2023-05-25
Name/Print	Farshad Farjami	Registration Number	41014

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U.S.PATENTS

Examiner Initial*	Cite No	Patent Number	Kind Code[1]	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
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U.S.PATENT APPLICATION PUBLICATIONS

Examiner Initial*	Cite No	Publication Number	Kind Code[1]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
/E.M.S/	1	20040224668	A1	2004-11-11	Shell, Scott R. et al.	

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FOREIGN PATENT DOCUMENTS

Examiner Initial*	Cite No	Foreign Document Number[3]	Country Code[2]¡	Kind Code[4]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear	T[5]
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/E.M.S/	1	Jon Inouye et al., „Dynamic Network Reconfiguration Support for Mobile Computers“, Proceedings of the 3rd annual ACM/IEEE International Conference on Mobile Computing and Networking (MobiCom ’97), published September 1997	☐

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	2	7391724	B2	2008-06-24	Alakoski et al.	
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	10	7418253		2008-08-26	KAVANAH, Alan	
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	125	7668176		2010-02-23	Chuah, Mooi Choo	
	126	7668612	B	2010-02-23	Okkonen, Harri	
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/E.M.S/	130	7680086	B2	2010-03-16	Eglin	
	131	7681226	B2	2010-03-16	Kraemer et al.	
	132	7684370	B2	2010-03-23	Kezys, Vytautas Robertas	
	133	7685131		2010-03-23	Batra, Vishal Singh et al.	
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	135	7685530	B2	2010-03-23	Sherrard et al.	
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	138	7693720		2010-04-06	KENNEWICK et al.	
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/E.M.S/	141	7710932		2010-05-04	MUTHUSWAMY, Sivakumar et al.	
	142	7711848		2010-05-04	MAES, Stephane H.	
	143	7719966	B2	2010-05-18	Luft et al.	
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	146	7720505		2010-05-18	GOPI et al.	
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	149	7724716	B2	2010-05-25	Fadell, Anthony M.	
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/E.M.S/	152	7729484	B1	2010-06-01	Coppage	
	153	7730123		2010-06-01	ERICKSON, Richard R. et al.	
	154	7734784		2010-06-08	ARAUJO et al.	
	155	7742406	B1	2010-06-22	Muppala, Suresh	
	156	7742961	B2	2010-06-22	Aaron et al.	
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/E.M.S/	163	7756056	B2	2010-07-13	Kim et al.	
	164	7756509	B2	2010-07-13	Rajagopalan et al.	
	165	7756534		2010-07-13	Anupam, Vinod et al.	
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	167	7760137	B2	2010-07-20	Martucci et al.	
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/E.M.S/	174	7774412	B1	2010-08-10	Schnepel, Soenke	
	175	7774456	B1	2010-08-10	Lownsbrough, Derek Leigh et al.	
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/E.M.S/	185	7797060	B2	2010-09-14	Grgic et al.	
	186	7797204		2010-09-14	BALENT, Bruce F.	
	187	7797401		2010-09-14	STEWART et al.	
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/E.M.S/	196	7809372	B2	2010-10-05	Rajaniemi, Jaakko	
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/E.M.S/	207	7844034	B1	2010-11-30	Oh et al.	
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/E.M.S/	218	7865182		2011-01-04	Macaluso, Anthony G.	
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/E.M.S/	229	7881199		2011-02-01	KRSTULICH, Zlatko	
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/E.M.S./	240	7894431	B2	2011-02-22	Goring et al.	
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☐ The fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

☒ A certification statement is not submitted herewith.

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Signature	/Farshad Farjami/	Date (YYYY-MM-DD)	2023-05-25
Name/Print	Farshad Farjami	Registration Number	41014

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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).

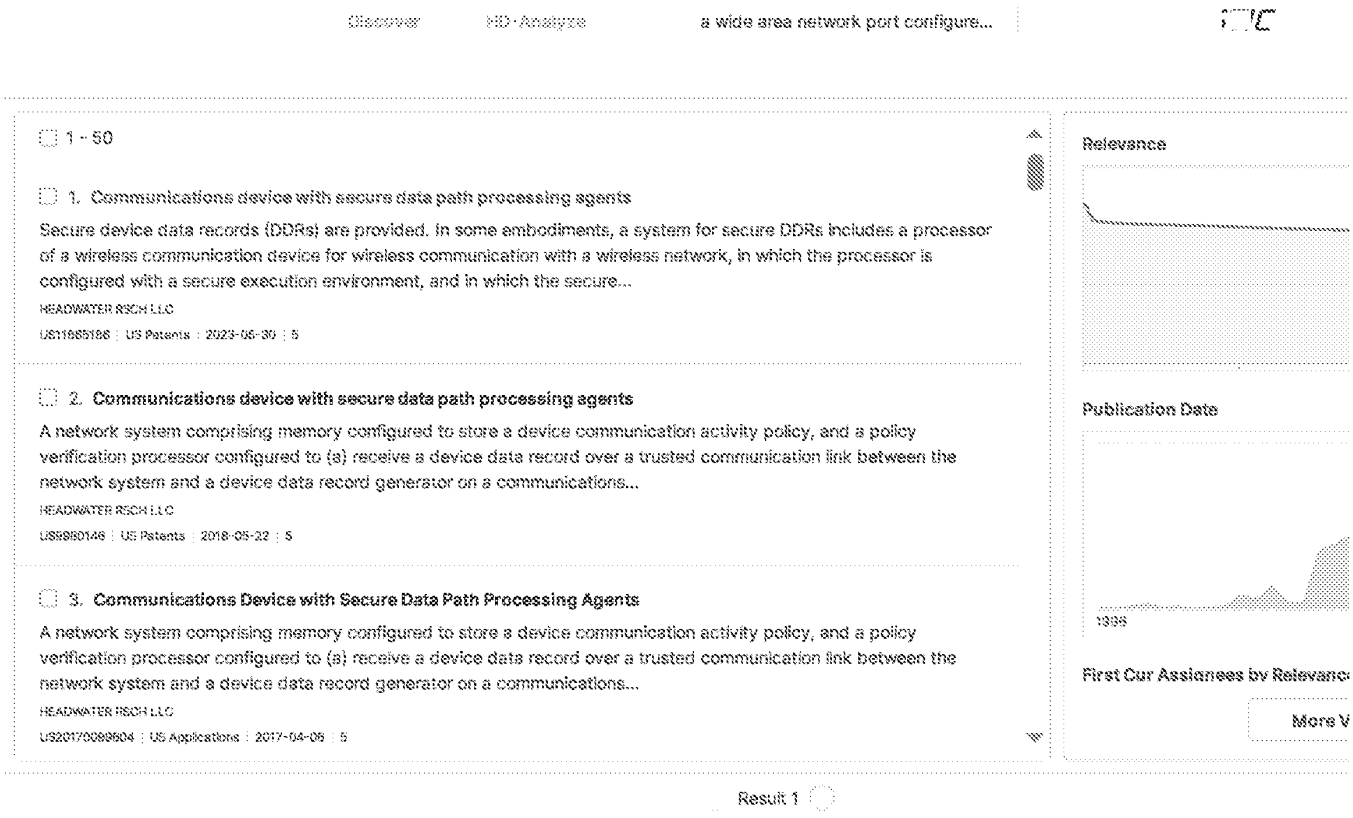
5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.

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.


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1 - 50
1. Communications device with secure data path processing agents
Secure device data records (DDRs) are provided. In some embodiments, a system for secure DDRs includes a processor of a wireless communication device for wireless communication with a wireless network, in which the processor is configured with a secure execution environment, and in which the secure...
HEADWATER RSCH LLC
US11985198 | US Patents | 2023-05-30 | 5
2. Communications device with secure data path processing agents
A network system comprising memory configured to store a device communication activity policy, and a policy verification processor configured to (a) receive a device data record over a trusted communication link between the network system and a device data record generator on a communications...
HEADWATER RSCH LLC
US9980146 | US Patents | 2018-05-22 | 5
3. Communications Device with Secure Data Path Processing Agents
A network system comprising memory configured to store a device communication activity policy, and a policy verification processor configured to (a) receive a device data record over a trusted communication link between the network system and a device data record generator on a communications...
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	197	8249601	B2	2012-08-21	Emberson et al.	
	198	8254880	B2	2012-08-28	Aaltonen et al.	
	199	8254915		2012-08-28	Kozisek, Steven E.	
	200	8255515		2012-08-28	MELMAN, David et al.	
	201	8255534	B2	2012-08-28	Assadzadeh, Alireza	
	202	8255689		2012-08-28	KIM, Eun Ah et al.	
	203	8259692	B2	2012-09-04	Bajko, Gabor	
	204	8260252	B2	2012-09-04	Agarwal	
	205	8264965	B2	2012-09-11	Dolganow et al.	
	206	8265004		2012-09-11	Toutonghi, Michael J.	

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/E.M.S/	207	8266249	B2	2012-09-11	Hu	
	208	8266269	B2	2012-09-11	Short et al.	
	209	8266681		2012-09-11	Deshpande, Sumit B. et al.	
	210	8270955	B2	2012-09-18	Ramer et al.	
	211	8270972	B2	2012-09-18	Otting, Marcia J. et al.	
	212	8271025	B2	2012-09-18	Brisebois et al.	
	213	8271045		2012-09-18	Parolkar, Satish et al.	
	214	8271049		2012-09-18	SILVER, Andrew et al.	
	215	8271992	B2	2012-09-18	Chatley, Scott P. et al.	
	216	8275415	B2	2012-09-25	Huslak, Nicholas S.	
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/E.M.S/	218	8279067		2012-10-02	BERGER, Thomas R. et al.	
	219	8279864		2012-10-02	Wood, Daniel M.	
	220	8280351		2012-10-02	Ahmed, Shahid et al.	
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	222	8284740		2012-10-09	O'CONNOR, Dennis M.	
	223	8285197	B2	2012-10-09	Preiss et al.	
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	226	8290820	B2	2012-10-16	Plastina et al.	
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/E.M.S/	229	8296404		2012-10-23	McDysan, Dave et al.	
	230	8300575	B2	2012-10-30	Willars, Per	
	231	8301513		2012-10-30	Peng, Shih-Ta et al.	
	232	8306505	B2	2012-11-06	Bennett	
	233	8306518		2012-11-06	GAILLOUX, Michael A.	
	234	8306741	B2	2012-11-06	Tu, Ihung	
	235	8307067	B2	2012-11-06	Ryan, Nicholas M.	
	236	8307095	B2	2012-11-06	Clark et al.	
	237	8310943	B2	2012-11-13	Mehta et al.	
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/E.M.S/	240	8315594		2012-11-20	Mauser, Edward Ronald et al.	
	241	8315718		2012-11-20	Caffrey, Paul Oliver et al.	
	242	8315999	B2	2012-11-20	Chatley, Scott P. et al.	
	243	8320244	B2	2012-11-27	Muqattash et al.	
	244	8320902	B2	2012-11-27	Moring et al.	
	245	8320949		2012-11-27	Matta, Sudheer Poorna Chandra	
	246	8325638		2012-12-04	Jin, Haipeng et al.	
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	248	8326319	B2	2012-12-04	Davis, Richard W.	
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	250	8326828	B2	2012-12-04	Zhou et al.	

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/E.M.S/	251	8331223	B2	2012-12-11	Hill et al.	
	252	8331293		2012-12-11	Sood, Kapil	
	253	8332375		2012-12-11	Chatley, Scott P. et al.	
	254	8332517		2012-12-11	Russell, Jesse E.	
	255	8335161		2012-12-18	Foottit, Tom et al.	
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	259	8340644	B2	2012-12-25	Sigmund et al.	
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/E.M.S/	262	8346023	B2	2013-01-01	Lin	
	263	8346210	B2	2013-01-01	Balsan et al.	
	264	8346225	B2	2013-01-01	Raleigh	
	265	8346923	B2	2013-01-01	Rowles et al.	
	266	8347104	B2	2013-01-01	Pathiyal, Krishna K.	
	267	8347362		2013-01-01	Cai, Yigang et al.	
	268	8347378	B2	2013-01-01	Merkin et al.	
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