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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
17/567,594	01/03/2022	Gregory G. Raleigh	RALEP037D1C1C1C1C1	1081

106963 7590 01/14/2025

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

EXAMINER	
NAOREEN, NAZIA	

ART UNIT	PAPER NUMBER
2458	

NOTIFICATION DATE	DELIVERY MODE
01/14/2025	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.
17/567,594	14-Jan-2025	12200786

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

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United States Patent and Trademark Office
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APPLICATION NO.	ISSUE DATE	PATENT NO.	ATTORNEY DOCKET NO.	CONFIRMATION NO.
17/567,594	01/14/2025	12200786	RALEP037D1C1C1C1C1	1081

106963 7590 12/25/2024

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 208 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;
Alireza Raissinia, Saratoga, CA;
Jeffrey Green, 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.

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	17567594
	Filing Date	2022-01-03
	First Named Inventor	RALEIGH, GREGORY
	Art Unit	
	Examiner Name	
	Attorney Docket Number	RALEP037D1C1C1C1C1

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					

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
	1	20100199325	A1	08/2010 ~~2013-03-05~~	Raleigh	
Change(s) applied to document. /C.L./ 12/5/2024	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]
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NON-PATENT LITERATURE DOCUMENTS

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /N.N/

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	17567594
	Filing Date	2022-01-03
	First Named Inventor	RALEIGH, GREGORY
	Art Unit	
	Examiner Name	not yet assigned
	Attorney Docket Number	RALEP037D1C1C1C1C1

Change(s) applied to document, /C.L./ 12/5/2024

	77	20040170191	A	2004-09-02	Guo et al.	
	78	20040176104	A	09/2004 ~~1841-03-12~~	Arcens	
	79	20040176104	A1	2004-09-09	Arcens	
	80	20040198331		2004-10-07	COWARD et al.	
	81	20040203755		2004-10-14	BRUNET, Jeffrey et al.	
	82	20040203833	A	2004-10-14	Rathunde, Dale F. et al.	
	83	20040225561	A1	2004-11-11	Hertzberg et al.	
	84	20040225898	A	2004-11-11	Frost, D. et al.	
	85	20040236547		2004-11-25	RAPPAPORT et al.	
	86	20040243680	A1	2004-12-02	Mayer, Georg	
	87	20040243992	A	2004-12-02	Gustafson et al.	

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /N.N/

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Not for submission under 37 CFR 1.99)

Application Number	17567594
Filing Date	2022-01-03
First Named Inventor	RALEIGH, GREGORY
Art Unit	
Examiner Name	Unknown
Attorney Docket Number	RALEP037D1C1C1C1C1

	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.	T[5]
	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	☐

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /N.N/

FARJAMI & FARJAMI LLP
AN INTELLECTUAL PROPERTY LAW FIRM

www.farjami.com

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fax: (949) 282-1002

ELECTRONIC TRANSMISSION COVER SHEET

Date: December 3, 2024

To: United States Patent and Trademark Office
Examiner: Naoreen, Nazia; Art Unit: 2458

Re: **Application Serial No.: 17/567,594**
Filing Date: 1/3/2022; First-Named Inventor: Raleigh
Attorney Docket No.: RALEP037D1C1C1C1C1

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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ELECTRONIC ACKNOWLEDGEMENT RECEIPT

APPLICATION #	RECEIPT DATE / TIME	ATTORNEY DOCKET #
17/567,594	**12/03/2024 07:26:45 PM Z ET**	**RALEP037D1C1C1C1C1**

Title of Invention

Enterprise Access Control and Accounting Allocation for Access Networks

Application Information

APPLICATION TYPE	Utility - Nonprovisional Application under 35 USC 111(a)	PATENT #	-
CONFIRMATION #	1081	FILED BY	Evan Gunderman
PATENT CENTER #	68210408	FILING DATE	01/03/2022
CUSTOMER #	106963	FIRST NAMED INVENTOR	Gregory G. Raleigh
CORRESPONDENCE ADDRESS	-	AUTHORIZED BY	Michael Farjami

Documents

TOTAL DOCUMENTS: 2

DOCUMENT		PAGES	DESCRIPTION	SIZE (KB)
RALEP037D1C1C1C1C1_Issue_Fee_Dec_3_24.pdf		5	-	333 KB
RALEP037D1C1C1C1C1_Issue_Fee_Dec_3_24-TRAN.LET.pdf	(1-1)	1	Transmittal Letter	30 KB
RALEP037D1C1C1C1C1_Issue_Fee_Dec_3_24-IFEE.pdf	(2-5)	4	Issue Fee Payment (PTO-85B)	311 KB

Digest

DOCUMENT	MESSAGE DIGEST(SHA-512)

RALEP037D1C1C1C1C1_Issue_Fee_Dec_3_24.pdf	ABF72F08AA50D541BA119E9DFAB9139F122F82AD7D65837BD60691176437A3982ADE181A62EA50D2BDF4B4D53FDCF67277EB300459CDCB7C3E8168E4479274BB
RALEP037D1C1C1C1C1_Issue_Fee_Dec_3_24-TRAN.LET.pdf	A52668247597B66A718A02B5F4D83E49C422DAD662196E94B99656C42E4EF359E271346BAE5A660602CE1866DC9B818A2A7304B62AD73A37F4361F8C05794C08
RALEP037D1C1C1C1C1_Issue_Fee_Dec_3_24-IFEE.pdf	12081679F49625B6DE178E74D19B46408E0B1E87624B14FE459A364BE0BC3DF24B17294F7F81E608A2B0874E334E68C503A6D770DFA8EFD7BCAC1951DCACABC3

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 PAYMENT RECEIPT

APPLICATION #	RECEIPT DATE / TIME	ATTORNEY DOCKET #
17/567,594	**12/03/2024 07:26:45 PM Z ET**	**RALEP037D1C1C1C1C1**

Title of Invention

Enterprise Access Control and Accounting Allocation for Access Networks

Application Information

APPLICATION TYPE	Utility - Nonprovisional Application under 35 USC 111(a)	PATENT #	-
CONFIRMATION #	1081	FILED BY	Evan Gunderman
PATENT CENTER #	68210408	AUTHORIZED BY	Michael Farjami
CUSTOMER #	106963	FILING DATE	01/03/2022
CORRESPONDENCE ADDRESS	-	FIRST NAMED INVENTOR	Gregory G. Raleigh

Payment Information

PAYMENT METHOD	PAYMENT TRANSACTION ID	PAYMENT AUTHORIZED BY
CARD / 5006	**E2024B3J28449407**	**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

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New International Application Filed with the USPTO as a Receiving Office

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

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s): **Raleigh et al.**	Group Art Unit: 2458
Application Serial No.: **17/567,594**	Examiner: Naoreen, Nazia
Filed: **1/3/2022**	Notice of Allowance: November 26, 2024
Title: **Enterprise Access Control and Accounting Allocation for Access Networks**	

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
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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.

December 3, 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 11/26/2024
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)
December 3, 2024	(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
17/567,594	01/03/2022	Gregory G. Raleigh	RALEP037D1C1C1C1C1	1081

TITLE OF INVENTION: Enterprise Access Control and Accounting Allocation for Access Networks

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	02/26/2025

EXAMINER	ART UNIT	CLASS-SUBCLASS
NAOREEN, NAZIA	2458	709-223000

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 December 3, 2024

Typed or printed name Farshad Farjami Registration No. 41014

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
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NOTICE OF ALLOWANCE AND FEE(S) DUE

106963 7590 11/26/2024

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

EXAMINER
NAOREEN, NAZIA

ART UNIT	PAPER NUMBER
2458	

DATE MAILED: 11/26/2024

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
17/567,594	01/03/2022	Gregory G. Raleigh	RALEP037D1C1C1C1C1	1081

TITLE OF INVENTION: Enterprise Access Control and Accounting Allocation for Access Networks

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	02/26/2025

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 11/26/2024
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.
17/567,594	01/03/2022	Gregory G. Raleigh	RALEP037D1C1C1C1C1	1081

TITLE OF INVENTION: Enterprise Access Control and Accounting Allocation for Access Networks

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	02/26/2025

EXAMINER	ART UNIT	CLASS-SUBCLASS
NAOREEN, NAZIA	2458	709-223000

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. _____

UNITED STATES PATENT AND TRADEMARK OFFICE

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

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
17/567,594	01/03/2022	Gregory G. Raleigh	RALEP037D1C1C1C1C1	1081

106963 7590 11/26/2024

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

EXAMINER	
NAOREEN, NAZIA	
ART UNIT	**PAPER NUMBER**
2458	

DATE MAILED: 11/26/2024

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. 17/567,594	Applicant(s) Raleigh et al.	
	Examiner NAZIA NAOREEN	Art Unit 2458	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 09/05/2024.
   ☐ 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 2-13 . 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 See Continuation Sheet.
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 _____.

/NAZIA NAOREEN/
Primary Examiner, Art Unit 2458

Continuation of Attachment(s) 2. Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date: 09/09/24, 09/11/24, 09/19/24, 09/23/24, and 11/14/24

DETAILED ACTION

Status of Claims:

1. Claims 2 – 13 are allowed over the prior art of record.

Notice of Pre-AIA or AIA Status

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

Information Disclosure Statement

3. The information disclosure statement (IDS) was submitted on 09/09/24, 09/11/24, 09/19/24, 09/23/24, and 11/14/24. The submission is in compliance with the provisions of 37 CFR 1.97. Accordingly, the information disclosure statement is being considered by the examiner.

Response to Arguments

4. Applicant's arguments, filed 09/05/2024, have been fully considered and are persuasive.

5. The 35 USC §102 rejection of claims 2 – 13 are hereby withdrawn in light of the applicant's amendments and arguments. See remarks, pp 5 – 7.

Allowable Subject Matter

6. Claims 2 – 13 are allowed.

Reasons for Allowance

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

Claims 2 – 13 are allowed for reasons argued in the Applicant's Arguments. See Remarks, filed 09/05/2024.

Reasons for Allowance is not required in this office communication as applicant's reply make evident the reasons for allowance, satisfying the "record as a whole' proviso of the rule 37 CFR 1.104(e).

Examiner performed updated search and additional search does not yield other specific references that reasonably, either singularly or in combination with cited references, would result a proper

rejection that would have anticipated or made obvious all the steps disclosed in the amended claims with proper motivation at or before the time it was effectively filed.

Therefore, claims 2 – 13 are hereby allowed.

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

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to NAZIA NAOREEN whose telephone number is (571)270-7282. The examiner can normally be reached M-F: 9:00 - 6:00.

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, Kevin Bates can be reached on 571-272-3980. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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

/NAZIA NAOREEN/
Primary Examiner, Art Unit 2458

Notice of References Cited	Application/Control No. 17/567,594	Applicant(s)/Patent Under Reexamination Raleigh et al.	
	Examiner NAZIA NAOREEN	Art Unit 2458	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-20070245409-A1	2007-10-18	Harris; James	H04L67/06	726/5
*	B	US-20070083655-A1	2007-04-12	Pedersen; Bradley J.	H04L63/102	709/226
*	C	US-20070083610-A1	2007-04-12	Treder; Terry Noel	H04L67/34	709/217
	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)
	U	
	V	
	W	
	X	

*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)
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
	17/567,594	Raleigh et al.
	Examiner	Art Unit
	NAZIA NAOREEN	2458

CPC - Searched*		
Symbol	**Date**	**Examiner**
H04W76/12	01/24/2024	NN
H04L12/1457	01/24/2024	NN
H04L12/4633	01/24/2024	NN
H04L41/0823	01/24/2024	NN
H04L67/34	01/24/2024	NN
H04M15/8033	01/24/2024	NN
Updated Search	07/10/2024	NN
Updated Search	11/16/2024	NN

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.

/NAZIA NAOREEN/ Primary Examiner, Art Unit 2458	

Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	17/567,594	Raleigh et al.
	Examiner	Art Unit
	NAZIA NAOREEN	2458

Search Notes		
Search Notes	**Date**	**Examiner**
Inventor and Assignee	01/24/2024	NN
PE2ESEARCH (US-PGPUB, USPAT, USOCR, FIT, FPRS, EPO, JPO, DERWENT, IBM TDB)	01/24/2024	NN
Classification and Double Patenting	01/24/2024	NN
IP.com search, Google Scholar search	01/24/2024	NN
Updated Search, IP.com search, Google Scholar search	07/10/2024	NN
Updated Search, IP.com search, Google Scholar search	11/16/2024	NN

Interference Search			
US Class/CPC Symbol	**US Subclass/CPC Group**	**Date**	**Examiner**
	Text Search US PG-PUB	11/16/2024	NN

/NAZIA NAOREEN/ Primary Examiner, Art Unit 2458	

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	17/567,594	Raleigh et al.
	Examiner	**Art Unit**
	NAZIA NAOREEN	2458

CPC						
Symbol					**Type**	**Version**
H04W	/	76	/	12	F	2018-02-01
H04L	/	12	/	1457	I	2013-01-01
H04M	/	15	/	8033	I	2013-01-01
H04L	/	12	/	4633	I	2013-01-01
H04L	/	41	/	0823	I	2013-01-01
H04L	/	67	/	34	I	2013-01-01
H04W	/	4	/	24	A	2013-01-01

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

NONE		**Total Claims Allowed:**	
(Assistant Examiner)	(Date)	12	
/NAZIA NAOREEN/ Primary Examiner, Art Unit 2458	16 November 2024	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	27

U.S. Patent and Trademark Office — Part of Paper No.: 20241116

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	17/567,594	Raleigh et al.
	Examiner	**Art Unit**
	NAZIA NAOREEN	2458

INTERNATIONAL CLASSIFICATION				
CLAIMED				
H04W	/	76	/	12
H04L	/	12	/	14
H04M	/	15	/	00
H04L	/	12	/	46
H04L	/	41	/	0823
H04L	/	67	/	00

NON-CLAIMED				
	/		/	

US ORIGINAL CLASSIFICATION	
CLASS	**SUBCLASS**

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

NONE		**Total Claims Allowed:**	
(Assistant Examiner)	(Date)	12	
/NAZIA NAOREEN/ Primary Examiner, Art Unit 2458	16 November 2024	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	27

U.S. Patent and Trademark Office — Part of Paper No.: 20241116

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	17/567,594	Raleigh et al.
	Examiner	**Art Unit**
	NAZIA NAOREEN	2458

☐ 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												
1	2	10	11												
2	3	11	12												
3	4	12	13												
4	5														
5	6														
6	7														
7	8														
8	9														

NONE		**Total Claims Allowed:**	
(Assistant Examiner)	(Date)	12	
/NAZIA NAOREEN/ Primary Examiner, Art Unit 2458	16 November 2024	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	27

U.S. Patent and Trademark Office Part of Paper No.: 20241116

Index of Claims	Application/Control No.	Applicant(s)/Patent Under Reexamination
	17/567,594	Raleigh et al.
	Examiner	**Art Unit**
	NAZIA NAOREEN	2458

✓	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	01/24/2024	07/10/2024	11/16/2024						
	1	✓	-	-						
1	2		✓	=						
2	3		✓	=						
3	4		✓	=						
4	5		✓	=						
5	6		✓	=						
6	7		✓	=						
7	8		✓	=						
8	9		✓	=						
9	10		✓	=						
10	11		✓	=						
11	12		✓	=						
12	13		✓	=						

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	17567594
	Filing Date	2022-01-03
	First Named Inventor	RALEIGH, GREGORY
	Art Unit	2458
	Examiner Name	Naoreen, Nazia
	Attorney Docket Number	RALEP037D1C1C1C1C1

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	5,987,611		1999-11-16	Freund; Gregor	
	2	7,821,985		2010-10-26	Van Megen; Friedrich et al.	
	3	6,223,042		2001-04-24	Raffel; Michael Allen	
	4	8,413,172		2013-04-02	Sng; Swee Huat	
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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
	1	20040224668		2004-11-11	Shell, Scott R. et al.	
	2	20090207817		2009-08-20	Montemurro; Michael et al.	

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /N.N/

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	17567594
	Filing Date	2022-01-03
	First Named Inventor	RALEIGH, GREGORY
	Art Unit	2458
	Examiner Name	Naoreen, Nazia
	Attorney Docket Number	RALEP037D1C1C1C1C1

	3	20090217065		2009-08-27	Araujo, JR.; Nelson S.	
	4	20140226624		2014-08-14	WOO; Kwang Taek et al.	
	5	20070038763		2007-02-15	Oestvall; Magnus Evert	
	6	20060039354		2006-02-23	Rao; Goutham P. et al.	
	7	20070149252		2007-06-28	Jobs; Steven P. et al.	
	8	20100017506		2010-01-21	Fadell; Anthony	
	9	20090210537		2009-08-20	Irwin; James 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]
	1	03/100581	WO		2003-12-04	Symbian Limited		☐

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NON-PATENT LITERATURE DOCUMENTS

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	1	D. P. Bovet, "Understanding the Linux Kernel," 2000, ISBN: 0-596-00002-2	☐
	2	U.S. Provisional Pat. App. No. 61/082,160	☐
	3	Hinckley et al., "Foreground and background interaction with sensor-enhanced mobile devices," ACM Trans. Comput. Hum. Interact., vol. 12, no. 1, pp. 31–52, Mar. 2005	☐
	4	Petition for Inter Partes Review of U.S. Pat. No. 9,277,445 Pursuant To 35 U.S.C. §§ 311–319, 37 C.F.R. § 42 in Samsung Electronics Co Ltd v. Headwater Research LLC, IPR2023-01462, Paper 2 (PTAB September 28, 2023)	☐
	5	Decision Denying Institution of Inter Partes Review in Samsung Electronics Co Ltd v. Headwater Research LLC, IPR2023-01462, Paper 9 (PTAB March 29, 2024)	☐
	6	File History of U.S. Patent No. 9,277,445	☐
	7	REQUEST FOR EX PARTE REEXAMINATION OF U.S. PATENT NO. 9,277,445	☐
	8	Feldmeier, C.C. "Multiplexing issues in communication system design." In Proceedings of the ACM symposium on Communications architectures & protocols (SIGCOMM '90). Association for Computing Machinery, New York, NY, USA, 209–219, 1990.	☐
	9	Petition for Inter Partes Review of U.S. Pat. No. 9,271,184 Pursuant To 35 U.S.C. §§ 311–319, 37 C.F.R. § 42 in Samsung Electronics Co Ltd v. Headwater Research LLC, IPR2023-01361, Paper 3 (PTAB September 8, 2023)	☐
	10	Decision Denying Institution of Inter Partes Review in Samsung Electronics Co Ltd v. Headwater Research LLC, IPR2023-01361, Paper 10 (PTAB March 29, 2024)	☐

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	11	Petition for Inter Partes Review of U.S. Pat. No. 9,271,184 Pursuant To 35 U.S.C. §§ 311–319, 37 C.F.R. § 42 in Samsung Electronics Co Ltd v. Headwater Research LLC, IPR2023-01362, Paper 3 (PTAB September 8, 2023)	☐
	12	Decision Denying Institution of Inter Partes Review in Samsung Electronics Co Ltd v. Headwater Research LLC, IPR2023-01362, Paper 10 (PTAB March 29, 2024)	☐
	13	File History of U.S. Patent No. 9,271,184	☐
	14	REQUEST FOR EX PARTE REEXAMINATION OF U.S. PATENT NO. 9,271,184	☐

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Examiner Signature	/NAZIA NAOREEN/	Date Considered	11/16/2024

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OR

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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)	2024-09-09
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.**

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	Art Unit	2458
	Examiner Name	Naoreen, Nazia
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	2	8,886,261		2014-11-11	Aerrabotu; Naveen	
	3	8,413,172		2013-04-02	Sng; Swee Huat	
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	1	20040224668		2004-11-11	Shell, Scott R. et al.	
	2	20080080458		2008-04-03	COLE; TERRY L.	
	3	20090217065		2009-08-27	Araujo, JR.; Nelson S.	

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	4	20090207817		2009-08-20	Montemurro; Michael et al.	
	5	20090210537		2009-08-20	Irwin; James et al.	
	6	20090093247		2009-04-09	Srinivasan; Malayala R.	
	7	20060039354		2006-02-23	Rao; Goutham P. et al.	

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	1	03/100581	WO		2003-12-04	Symbian Limited		☐

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	1	Complaint for Patent Infringement in Headwater Research LLC v. Samsung Electronics Co., Ltd. et al., 2-23-cv-00641 (EDTX), Dec. 29, 2023)	☐
	2	David Flanagan, O'Reilly & Associates, Inc., "Java in a Nutshell," 1996, ISBN: 1-56592-183-6	☐

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	Examiner Name	Naoreen, Nazia
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	3	Korhonen, "Host Identity Protocol (HIP) Implementation in the Symbian Environment," Master of Science Thesis, Tampere University of Technology (12/10/2007)	☐
	4	Welsh, "Incorporating Memory Management into User-Level Network Interfaces." IEEE Micro, 18(2), 1998, 10 pages	☐
	5	Carter, Casey et al., "Contact networking: a localized mobility system," Proceedings of the 1st International Conference on Mobile systems, Applications and Services, 2003	☐
	6	S. Lee & N. Golmie, "Power-Efficient Interface Selection Scheme using Paging of WWAN for WLAN in Heterogeneous Wireless Networks," 2006 IEEE International Conference on Communications (Istanbul, 2006), 1742–1747	☐
	7	M. Stemm et al., "A network measurement architecture for adaptive applications," Proceedings of the 2000 IEEE INFOCOM Conference on Computer Communications. Nineteenth Annual Joint Conference of the IEEE Computer and Communications Societies (Cat. No.00CH37064), Tel Aviv, Israel, 2000, 285-294	☐
	8	K. Ravindran & V. Bansal, "Delay compensation protocols for synchronization of multimedia data streams," IEEE Transactions on Knowledge and Data Engineering, Vol. 5, No. 4, 574-589, Aug. 1993	☐
	9	D. C. Verma, "Simplifying network administration using policy-based management." IEEE Network, Vol. 16, No. 2, 20-26, Mar. 2002	☐
	10	G. Nychis & D. R. Licata, "The impact of background network traffic on foreground network traffic." Proceedings of the IEEE Global Telecommunications Conference (GLOBECOM), 2001	☐
	11	I. Pronchev. "Packet Capturing Using the Linux Netfilter Framework." Technical Report, Technische Universität München, 1-31, July 2006	☐
	12	A.-J. Moerdijk and L. Klostermann, "Opening the networks with Parlay/OSA: standards and aspects behind the APIs." IEEE Network, vol. 17, no. 3, pp. 58-64, May-June 2003	☐
	13	J. B. D. Joshi, E. Bertino, U. Latif and A. Ghafoor, "A generalized temporal role-based access control model." IEEE Transactions on Knowledge and Data Engineering, vol. 17, no. 1, pp. 4-23, Jan. 2005	☐

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	14	Lymberopoulos et al., "An Adaptive Policy-Based Framework for Network Services Management," Journal of Network and Systems Management, Vol. 11, No. 3, September 2003	☐
	15	Richard Stevens et al., "UNIX Network Programming Volume 1, Third Edition: The Sockets Networking API," 2004, ISBN: 0-13-141155-1	☐
	16	IPR2024-01407 PETITION FOR INTER PARTES REVIEW OF UNITED STATES PATENT NO. 9,179,359	☐

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EXAMINER SIGNATURE

Examiner Signature	/NAZIA NAOREEN/	Date Considered	11/16/2024

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Signature	/Farshad Farjami/	Date (YYYY-MM-DD)	2024-09-19
Name/Print	Farshad Farjami	Registration Number	41014

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

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	1	Reexamination Application Serial No. 90/119,610 - Order Granting Request for Ex Parte Reexamination of Patent No. 9,143,976, dated Oct 23, 24	☐
	2	Reexamination Application Serial No. 90/019,644 - Order Granting Request for Ex Parte Reexamination of Patent No. 9,277,445, dated November 8, 2024	☐
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Signature	/Farshad Farjami/	Date (YYYY-MM-DD)	2024-11-14
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.**

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Web Search History

date, time	web site	search string
11/16/2024 1:38:35 AM	Google Scholar	environment policy and security policy and application instance
11/16/2024 1:38:48 AM	Google Scholar	application instance and secure environment and vpn tunnel and policy
11/16/2024 1:39:04 AM	Google Scholar	split vpn tunnel and enterprise and personal and application instances
11/16/2024 1:39:12 AM	Google Scholar	first set of device application instances and second set of device application instances and policy
11/16/2024 1:39:19 AM	Google Scholar	application instance and policy and vpn tunnel and enterprise and personal



Search History

Report Run Date: 2024-11-16 UTC
Searches: 5
Markers: 0

Search #	Timestamp	Results	Page
1	2024-11-16 06:00 UTC	3,344,600	3
2	2024-11-16 06:07 UTC	3,243,310	4
3	2024-11-16 06:18 UTC	20,298,692	4
4	2024-11-16 06:26 UTC	3,344,600	4
5	2024-11-16 06:30 UTC	18,835,326	4

Content: Patents + NPL (195)

US Patents | US Designs | US Applications | EPO Patents | EPO Applications | China Patents | China Applications | Japan Patents | Japan Applications | Korea Patents | Korea Applications | WIPO Applications | Argentina Patents | Argentina Applications | Brazil Patents | Brazil Applications | Canada Patents | Canada Applications | Chile Patents | Chile Applications | Colombia Applications | Costa Rica Applications | Cuba Patents | Cuba Applications | Dominican Republic Applications | Ecuador Patents | Ecuador Applications | El Salvador Applications | Guatemala Applications | Honduras Applications | Mexico Patents | Mexico Applications | Nicaragua Patents | Panama Applications | Peru Applications | Trinidad & Tobago Patents | Uruguay Applications | Austria Patents | Austria Applications | Belarus Patents | Belgium Patents | Belgium Applications | Bosnia & Herzegovina Patents | Bosnia & Herzegovina Applications | Bulgaria Patents | Bulgaria Applications | Croatia Patents | Croatia Applications | Czech Republic Patents | Czech Republic Applications | Czechoslovakia Patents | Czechoslovakia Applications | Denmark Patents | Denmark Applications | Estonia Patents | Estonia Applications | EUIPO Patents | Finland Patents | Finland Applications | France Patents | France Applications | Germany Patents | Germany Applications | Great Britain Patents | Great Britain Applications | Greece Patents | Greece Applications | Hungary Patents | Hungary Applications | Iceland Patents | Iceland Applications | Ireland Patents | Ireland Applications | Italy Patents | Italy Applications | Latvia Patents | Latvia Applications | Lithuania Patents | Lithuania Applications | Luxembourg Patents | Luxembourg Applications | Malta Patents | Monaco Patents | Montenegro Patents | Montenegro Applications | Netherlands Patents | Netherlands Applications | Norway Patents | Norway Applications | Poland Patents | Poland Applications | Portugal Patents | Portugal Applications | Republic of Moldova Patents | Republic of Moldova Applications | Romania Patents | Romania Applications | San Marino Patents | San Marino Applications | Serbia Patents | Serbia Applications | Slovakia Patents | Slovakia Applications | Slovenia Patents | Spain Patents | Spain Applications | Sweden Patents | Sweden Applications | Switzerland Patents | Switzerland Applications | Ukraine Patents | Yugoslavia/Serbia and Montenegro Patents | Yugoslavia/Serbia and Montenegro Applications | Armenia Patents | Australia Patents | Australia Applications | Cyprus Patents | Gulf Cooperation Council Patents | Hong Kong Patents | India Patents | India Applications | Indonesia Patents | Indonesia Applications | Israel Patents | Israel Applications | Jordan Patents | Jordan Applications | Kyrgyzstan Patents | Macao Applications | Malaysia Patents | Mongolia Patents | New Zealand Patents | Philippines Patents | Philippines Applications | Saudi Arabia Patents | Saudi Arabia Applications | Singapore Patents | Singapore Applications | Taiwan Patents | Taiwan Applications | Tajikistan Patents | Tajikistan Applications | Thailand Patents | Thailand Applications | Uzbekistan Patents | Vietnam Patents | Algeria Patents | ARIPO Patents | ARIPO Applications | Egypt Patents | Kenya Patents | Malawi Patents | Morocco Patents | Morocco Applications | OAPI Patents | South Africa Patents | Tunisia Applications | Zambia Patents | Zimbabwe Patents | EAPO Patents | EAPO Applications | Georgia Patents | Georgia Applications | Kazakhstan Patents | Kazakhstan Applications | Russia Patents | Russia Applications | Turkey Patents | Turkey Applications | IEEE Xplore Publications: IEEE Periodicals | IEEE Xplore Publications: IEEE Conferences | IEEE Xplore Publications: IEEE Standards | IEEE Xplore Publications: IEEE Early Access | IEEE Xplore Publications: SMPTE Periodicals | IEEE Xplore Publications: SMPTE Conferences | IEEE Xplore Publications: SMPTE Standards | IEEE Xplore Publications: MIT Press eBooks | IEEE Xplore Publications: Wiley-IEEE eBooks | IEEE Xplore Publications: IBM Periodicals | IEEE Xplore Publications: URSI Periodicals | IEEE Xplore Publications: VDE Conferences | IEEE Xplore Publications: Periodicals from China | IEEE Xplore Publications: Ericsson Technology Review | IEEE Xplore Publications: Manning Books | IEEE Xplore Publications: Packt Books | IP.com Prior Art Database: The IP.com Journal | IP.com Prior Art Database: Internet Society RFC | IP.com Prior Art Database: IBM TDB Archive | IP.com Prior Art Database: Legacy Journals | IP.com Prior Art Database: Software Patent Institute | OnePetro.org: Periodicals at OnePetro.org | OnePetro.org: Conferences at OnePetro.org | Other Literature: IBM Redbooks | Other Literature: PubMed Central | Other Literature: arXiv.org

1 **2024-11-16 06:00 UTC | 3,344,600 results from**

De-Dup: None | **Relevance Cut-off:** None | **Sort:** Relevance

Main Concept: Text

environment policy and security policy and application instance

Concept Modifiers: None

Filters: None

2 **2024-11-16 06:07 UTC | 3,243,310 results from**

De-Dup: None | **Relevance Cut-off:** None | **Sort:** Relevance

Main Concept: Text
application instance and secure environment and vpn tunnel and policy

Concept Modifiers: None

Filters: None

3 **2024-11-16 06:18 UTC | 20,298,692 results from**

De-Dup: None | **Relevance Cut-off:** None | **Sort:** Relevance

Main Concept: Text
split vpn tunnel and enterprise and personal and application instances

Concept Modifiers: None

Filters: None

4 **2024-11-16 06:26 UTC | 3,344,600 results from**

De-Dup: None | **Relevance Cut-off:** None | **Sort:** Relevance

Main Concept: Text
first set of device application instances and second set of device application instances and policy

Concept Modifiers: None

Filters: None

5 **2024-11-16 06:30 UTC | 18,835,326 results from**

De-Dup: None | **Relevance Cut-off:** None | **Sort:** Relevance

Main Concept: Text
application instance and policy and vpn tunnel and enterprise and personal

Concept Modifiers: None

Filters: None

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	17567594
	Filing Date	2022-01-03
	First Named Inventor	RALEIGH, GREGORY
	Art Unit	2458
	Examiner Name	Naoreen, Nazia
	Attorney Docket Number	RALEP037D1C1C1C1C1

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	5987611		1999-11-16	Freund; Gregor	
	2	8028060		2011-09-27	Wyld; Jeremy et al.	
	3	8914783		2014-12-16	Van Camp; Kim O	
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
	1	20060039354		2006-02-23	Rao; Goutham P. et al.	
	2	20100017506		2010-01-21	Fadell; Anthony	
	3	20070038763		2007-02-15	Oestvall; Magnus Evert	

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /N.N/

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
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	First Named Inventor	RALEIGH, GREGORY
	Art Unit	2458
	Examiner Name	Naoreen, Nazia
	Attorney Docket Number	RALEP037D1C1C1C1C1

	4	20090207817		2009-08-20	Montemurro; Michael 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]
	1							☐

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NON-PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T[5]
	1		☐

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EXAMINER SIGNATURE

Examiner Signature	/NAZIA NAOREEN/	Date Considered	11/16/2024

*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.

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ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /N.N/

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	Examiner Name	Naoreen, Nazia
	Attorney Docket Number	RALEP037D1C1C1C1C1

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)	2024-09-11
Name/Print	Farshad Farjami	Registration Number	41014

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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.

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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.

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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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	Filing Date	2022-01-03
	First Named Inventor	RALEIGH, GREGORY
	Art Unit	2458
	Examiner Name	Naoreen, Nazia
	Attorney Docket Number	RALEP037D1C1C1C1C1

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
	1	20070271598		2007-11-22	Chen; Lee et al.	
	2	20060153122		2006-07-13	Hinman; Brian L. et al.	
	3	20020152319		2002-10-17	Amin, Rajesh B. et al.	

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

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	Art Unit	2458
	Examiner Name	Naoreen, Nazia
	Attorney Docket Number	RALEP037D1C1C1C1C1

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NON-PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T[5]
	1		☐

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

EXAMINER SIGNATURE

Examiner Signature	/NAZIA NAOREEN/	Date Considered	11/16/2024

*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.

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	Filing Date	2022-01-03
	First Named Inventor	RALEIGH, GREGORY
	Art Unit	2458
	Examiner Name	Naoreen, Nazia
	Attorney Docket Number	RALEP037D1C1C1C1C1

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Signature	/Farshad Farjami/	Date (YYYY-MM-DD)	2024-09-23
Name/Print	Farshad Farjami	Registration Number	41014

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ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /N.N/

Bibliographic Data

Application No: 17/567,594

Foreign Priority claimed: ○ Yes ◉ No

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

Verified and Acknowledged: /NAZIA NAOREEN/ (Examiner's Signature) | (Initials)

Title: Enterprise Access Control and Accounting Allocation for Access Networks

FILING or 371(c) DATE	CLASS	GROUP ART UNIT	ATTORNEY DOCKET NO.
01/03/2022	709	2458	
RULE			

APPLICANTS

Headwater Research LLC, Tyler, TX, UNITED STATES

INVENTORS

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

Alireza Raissinia, Saratoga, CA, UNITED STATES

Jeffrey Green, Sunnyvale, CA, UNITED STATES

CONTINUING DATA

This application is a CON of 16740625 01/13/2020 PAT 11219074

16740625 is a CON of 16132643 09/17/2018 PAT 10536983

16132643 is a CON of 15287603 10/06/2016 PAT 10080250

15287603 is a CON of 14578124 12/19/2014 PAT 9565707

14578124 is a DIV of 13248028 09/28/2011 PAT 8924469

13248028 has PRO of 61387243 09/28/2010

13248028 is a CIP of 12380780 03/02/2009 PAT 8839388

13248028 is a CIP of 12380778 03/02/2009 PAT 8321526

12380778 has PRO of 61207739 02/13/2009

12380780 has PRO of 61207739 02/13/2009

12380780 has PRO of 61207393 02/10/2009

12380778 has PRO of 61207393 02/10/2009

12380780 has PRO of 61206944 02/04/2009

12380778 has PRO of 61206944 02/04/2009

12380780 has PRO of 61206354 01/28/2009

12380778 has PRO of 61206354 01/28/2009

FOREIGN APPLICATIONS

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PE2E SEARCH - Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	British Equivalents	Time Stamp
L147	213	policy AND secure application environment	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	ADJ	ON	ON	2024/11/15 10:40 PM
L148	24	policy SAME secure application environment	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	ADJ	ON	ON	2024/11/15 10:40 PM
L149	3018	policy SAME secure application	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	ADJ	ON	ON	2024/11/15 11:25 PM
L150	10	policy SAME secure application AND (H04W76/12 OR	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY,	ADJ	ON	ON	2024/11/15 11:25 PM

		H04L12/1457 OR H04L12/4633 OR H04L41/0823 OR H04L67/34 OR H04M15/8033).cpc. AND @py<"2009"	CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)				
L151	151	policy SAME secure application AND @py<"2009"	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	ADJ	ON	ON	2024/11/15 11:28 PM
L152	14	policy SAME secure SAME application instance AND @py<"2009"	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	ADJ	ON	ON	2024/11/15 11:38 PM
L153	2	("10536983").pn.	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK,	ADJ	ON	ON	2024/11/15 11:58 PM

			TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)				
L154	4	("20140109175").pn.	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	ADJ	ON	ON	2024/11/15 11:58 PM
L155	102	split$tunnel SAME vpn	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	ADJ	ON	ON	2024/11/15 11:58 PM
L156	34155	tunnel near5 vpn	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	ADJ	ON	ON	2024/11/15 11:58 PM
L157	21482	vpn tunnel	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU,	ADJ	ON	ON	2024/11/15 11:58 PM

			CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)				
L158	127	vpn tunnel SAME enterprise SAME personal	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	ADJ	ON	ON	2024/11/15 11:58 PM
L159	4	("20140109175").pn.	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	ADJ	ON	ON	2024/11/15 11:58 PM
L160	3	("8931078").pn.	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN,	ADJ	ON	ON	2024/11/15 11:58 PM

			WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)				
L161	4	("20080052395").pn.	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	ADJ	ON	ON	2024/11/15 11:58 PM
L162	0	vpn tunnel AND unamanged mode	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	ADJ	ON	ON	2024/11/15 11:58 PM
L163	0	vpn SAME tunnel AND unamanged mode	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	ADJ	ON	ON	2024/11/15 11:58 PM
L164	0	vpn SAME tunnel AND unmanged mode	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA,	ADJ	ON	ON	2024/11/15 11:58 PM

			EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)				
L165	1074	vpn SAME tunnel AND unmanaged mode	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	ADJ	ON	ON	2024/11/15 11:58 PM
L166	248	vpn SAME tunnel AND unmanaged mode AND managed mode	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	ADJ	ON	ON	2024/11/15 11:58 PM
L167	253	vpn AND unmanaged mode AND managed mode	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO;	ADJ	ON	ON	2024/11/15 11:58 PM

			JPO; DERWENT; IBM_TDB)				
L168	1	(11/926454).APP.	(USPAT; USOCR)	ADJ	ON	ON	2024/11/15 11:58 PM
L169	14	(H04W76/12 AND H04L12/1457 AND H04L12/4633 AND H04L41/0823 AND H04L67/34 AND H04M15/8033).cpc.	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	ADJ	ON	ON	2024/11/15 11:58 PM
L170	210138	(H04W76/12 OR H04L12/1457 OR H04L12/4633 OR H04L41/0823 OR H04L67/34 OR H04M15/8033).cpc.	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	ADJ	ON	ON	2024/11/15 11:58 PM
L171	0	trigger condition (H04W76/12 OR H04L12/1457 OR H04L12/4633 OR H04L41/0823 OR H04L67/34 OR H04M15/8033).cpc.	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	ADJ	ON	ON	2024/11/15 11:58 PM
L172	1926	trigger condition AND (H04W76/12 OR H04L12/1457 OR H04L12/4633 OR	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU,	ADJ	ON	ON	2024/11/15 11:58 PM

		H04L41/0823 OR H04L67/34 OR H04M15/8033).cpc.	CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)				
L173	471	network access AND trigger condition AND (H04W76/12 OR H04L12/1457 OR H04L12/4633 OR H04L41/0823 OR H04L67/34 OR H04M15/8033).cpc.	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	ADJ	ON	ON	2024/11/15 11:58 PM
L174	48	service design center AND trigger condition AND (H04W76/12 OR H04L12/1457 OR H04L12/4633 OR H04L41/0823 OR H04L67/34 OR H04M15/8033).cpc.	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	ADJ	ON	ON	2024/11/15 11:58 PM
L175	516	network element AND trigger condition AND (H04W76/12 OR H04L12/1457 OR H04L12/4633 OR H04L41/0823 OR H04L67/34 OR H04M15/8033).cpc.	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA,	ADJ	ON	ON	2024/11/15 11:58 PM

			VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)				
L176	92	network element AND trigger condition SAME notification AND (H04W76/12 OR H04L12/1457 OR H04L12/4633 OR H04L41/0823 OR H04L67/34 OR H04M15/8033).cpc.	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	ADJ	ON	ON	2024/11/15 11:58 PM
L177	5	network element AND trigger condition SAME notification AND (H04W76/12 OR H04L12/1457 OR H04L12/4633 OR H04L41/0823 OR H04L67/34 OR H04M15/8033).cpc. AND @py<"2009"	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	ADJ	ON	ON	2024/11/15 11:58 PM
L178	84	trigger condition AND (H04W76/12 OR H04L12/1457 OR H04L12/4633 OR H04L41/0823 OR H04L67/34 OR H04M15/8033).cpc. AND @py<"2009"	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	ADJ	ON	ON	2024/11/15 11:58 PM
L179	1	trigger condition AND cable SAME dsl AND (H04W76/12 OR H04L12/1457 OR H04L12/4633 OR	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA,	ADJ	ON	ON	2024/11/15 11:58 PM

		H04L41/0823 OR H04L67/34 OR H04M15/8033).cpc. AND @py<"2009"	EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)				
L180	136	trigger condition AND cable SAME dsl AND @py<"2009"	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	ADJ	ON	ON	2024/11/15 11:58 PM
L181	9	trigger condition SAME notification AND cable SAME dsl AND @py<"2009"	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	ADJ	ON	ON	2024/11/15 11:58 PM
L182	1	trigger condition SAME notification AND design center AND @py<"2009"	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO;	ADJ	ON	ON	2024/11/15 11:58 PM

			JPO; DERWENT; IBM_TDB)				
L183	7	trigger condition AND design center AND @py<"2009"	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	ADJ	ON	ON	2024/11/15 11:58 PM
L184	821	trigger condition AND network element AND @py<"2009"	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	ADJ	ON	ON	2024/11/15 11:58 PM
L185	0	trigger condition AND network element SAME monitor$3 NEAR service usage AND @py<"2009"	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	ADJ	ON	ON	2024/11/15 11:58 PM
L186	0	trigger condition AND monitor$3 NEAR service usage AND @py<"2009"	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB,	ADJ	ON	ON	2024/11/15 11:58 PM

			HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)				
L187	0	trigger condition SAME notification SAME policy AND monitor$3 NEAR service usage AND @py<"2009"	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	ADJ	ON	ON	2024/11/15 11:58 PM
L188	2	trigger condition SAME notification SAME policy AND monitor$3 near5 service AND @py<"2009"	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	ADJ	ON	ON	2024/11/15 11:58 PM
L189	0	trigger condition SAME network access near5 activity AND monitor$3 near5 service AND @py<"2009"	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT;	ADJ	ON	ON	2024/11/15 11:58 PM

			IBM_TDB)				
L190	0	trigger condition SAME network access near5 activity AND @py<"2009"	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	ADJ	ON	ON	2024/11/15 11:58 PM
L191	0	trigger condition SAME network access near5 activit$3 AND @py<"2009"	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	ADJ	ON	ON	2024/11/15 11:58 PM
L192	13221	trigger condition AND @py<"2009"	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	ADJ	ON	ON	2024/11/15 11:58 PM
L193	132	trigger condition SAME network access AND @py<"2009"	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS,	ADJ	ON	ON	2024/11/15 11:58 PM

			IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)				
L194	3	trigger condition SAME network access SAME activit$3 AND @py<"2009"	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	ADJ	ON	ON	2024/11/15 11:58 PM
L195	7	network near5 provision$3 SAME service usage SAME activit$3 AND @py<"2009"	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	ADJ	ON	ON	2024/11/15 11:58 PM
L196	116	network near5 provision$3 SAME service usage AND @py<"2009"	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	ADJ	ON	ON	2024/11/15 11:58 PM

L197	47	network near5 provision$3 SAME service usage AND trigger AND @py<"2009"	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	ADJ	ON	ON	2024/11/15 11:58 PM
L198	298	trigger AND network near5 provision$3 AND (H04W76/12 OR H04L12/1457 OR H04L12/4633 OR H04L41/0823 OR H04L67/34 OR H04M15/8033).cpc. AND @py<"2009"	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	ADJ	ON	ON	2024/11/15 11:58 PM
L199	127	trigger SAME (message OR notification) AND network near5 provision$3 AND (H04W76/12 OR H04L12/1457 OR H04L12/4633 OR H04L41/0823 OR H04L67/34 OR H04M15/8033).cpc. AND @py<"2009"	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	ADJ	ON	ON	2024/11/15 11:58 PM
L200	27	network access SAME service SAME notification SAME messages AND (H04W76/12 OR H04L12/1457 OR H04L12/4633 OR H04L41/0823 OR H04L67/34 OR	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL,	ADJ	ON	ON	2024/11/15 11:58 PM

		H04M15/8033).cpc. AND @py<"2009"	NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)				
L201	713	network access SAME service SAME notification SAME messages AND @py<"2009"	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	ADJ	ON	ON	2024/11/15 11:58 PM
L202	262	network access SAME service SAME notification SAME messages AND provision$3 AND @py<"2009"	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	ADJ	ON	ON	2024/11/15 11:58 PM
L203	120	network access SAME service SAME notification SAME messages AND provision$3 AND trigger AND @py<"2009"	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	ADJ	ON	ON	2024/11/15 11:58 PM
L204	86	network access SAME	(US-PGPUB; USPAT;	ADJ	ON	ON	2024/11/15

		service SAME notification SAME messages AND provision$3 AND trigger AND instructions AND @py<"2009"	USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)				11:58 PM
L205	0	network access SAME service SAME notification SAME messages AND provision$3 AND trigger AND identification instructions AND @py<"2009"	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	ADJ	ON	ON	2024/11/15 11:58 PM
L206	0	network access SAME service SAME notification SAME messages AND provision$3 AND trigger AND identification abd translator AND @py<"2009"	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	ADJ	ON	ON	2024/11/15 11:58 PM
L207	24	network access SAME service SAME notification SAME messages AND provision$3 AND trigger AND identification AND translator AND @py<"2009"	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL,	ADJ	ON	ON	2024/11/15 11:58 PM

			PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)				
L208	65	network access SAME service SAME notification SAME messages AND provision$3 AND trigger AND policy AND @py<"2009"	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	ADJ	ON	ON	2024/11/15 11:58 PM
L209	2400	provision$3 AND trigger AND policy AND network element AND @py<"2009"	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	ADJ	ON	ON	2024/11/15 11:58 PM
L210	180	provision$3 AND trigger AND policy AND network access SAME notification AND @py<"2009"	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	ADJ	ON	ON	2024/11/15 11:58 PM
L211	11	provision$3 AND trigger AND policy AND	(US-PGPUB; USPAT; USOCR; FIT (AP, AT,	ADJ	ON	ON	2024/11/15 11:58 PM

		network access SAME notification SAME user device AND @py<"2009"	AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)				
L212	1	provision$3 AND trigger AND policy AND network access AND service design center AND @py<"2009"	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	ADJ	ON	ON	2024/11/15 11:58 PM
L213	3	provision$3 AND trigger AND policy AND network access AND design center AND @py<"2009"	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	ADJ	ON	ON	2024/11/15 11:58 PM
L214	0	provision$3 AND trigger AND policy AND network access SAME serivce usage AND @py<"2009"	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE,	ADJ	ON	ON	2024/11/15 11:58 PM

			SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)				
L215	29	provision$3 AND trigger AND policy AND network access SAME service usage AND @py<"2009"	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	ADJ	ON	ON	2024/11/15 11:58 PM
L216	436	provision$3 AND trigger AND policy AND network access AND cable SAME dsl AND @py<"2009"	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	ADJ	ON	ON	2024/11/15 11:58 PM
L217	23	provision$3 AND trigger SAME policy SAME notification AND network access AND cable SAME dsl AND @py<"2009"	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	ADJ	ON	ON	2024/11/15 11:58 PM
L218	0	network access near5 end user near5 activity AND trigger AND	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY,	ADJ	ON	ON	2024/11/15 11:58 PM

		(H04W76/12 OR H04L12/1457 OR H04L12/4633 OR H04L41/0823 OR H04L67/34 OR H04M15/8033).cpc. AND @py<"2009"	CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)				
L219	0	network access near5 user near5 activity AND trigger AND (H04W76/12 OR H04L12/1457 OR H04L12/4633 OR H04L41/0823 OR H04L67/34 OR H04M15/8033).cpc. AND @py<"2009"	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	ADJ	ON	ON	2024/11/15 11:58 PM
L220	0	network access near5 user near5 activity AND (H04W76/12 OR H04L12/1457 OR H04L12/4633 OR H04L41/0823 OR H04L67/34 OR H04M15/8033).cpc. AND @py<"2009"	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	ADJ	ON	ON	2024/11/15 11:58 PM
L221	2513	network access AND (H04W76/12 OR H04L12/1457 OR H04L12/4633 OR H04L41/0823 OR H04L67/34 OR H04M15/8033).cpc. AND @py<"2009"	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH,	ADJ	ON	ON	2024/11/15 11:58 PM

			TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)				
L222	45	network access SAME notification AND (H04W76/12 OR H04L12/1457 OR H04L12/4633 OR H04L41/0823 OR H04L67/34 OR H04M15/8033).cpc. AND @py<"2009"	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	ADJ	ON	ON	2024/11/15 11:58 PM
L223	158	network element AND network access SAME notification AND trigger AND @py<"2009"	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	ADJ	ON	ON	2024/11/15 11:58 PM
L224	653	network element AND network access SAME notification AND trigger AND design centerAND @py<"2009"	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	ADJ	ON	ON	2024/11/15 11:58 PM
L225	0	network element AND network access SAME notification AND trigger AND design center	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU,	ADJ	ON	ON	2024/11/15 11:58 PM

		AND @py<"2009"	CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)				
L226	2	("9288276").pn.	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	ADJ	ON	ON	2024/11/15 11:58 PM
L227	15	(network access notification).clm. AND (H04W76/12 OR H04L12/1457 OR H04L12/4633 OR H04L41/0823 OR H04L67/34 OR H04M15/8033).cpc.	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	ADJ	ON	ON	2024/11/15 11:58 PM
L228	26	network access notification AND (H04W76/12 OR H04L12/1457 OR H04L12/4633 OR H04L41/0823 OR H04L67/34 OR H04M15/8033).cpc.	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN,	ADJ	ON	ON	2024/11/15 11:58 PM

			WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)				
L229	1172	((("RALEIGH") near3 ("Gregory")) OR (("RAISSINIA") near3 ("Alireza")) OR (("GREEN") near3 ("Jeffrey")))).INV.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	ADJ	ON	ON	2024/11/15 11:58 PM
L230	111	((("HEADWATER") near3 ("RESEARCH") near3 ("LLC"))).AS,AANM.	(USPAT)	ADJ	ON	ON	2024/11/15 11:58 PM
L231	225	L64 AND L65	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	ADJ	ON	ON	2024/11/15 11:58 PM
L232	14	(H04W76/12 AND H04L12/1457 AND H04L12/4633 AND H04L41/0823 AND H04L67/34 AND H04M15/8033).cpc.	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	ADJ	ON	ON	2024/11/16 12:00 AM

PE2E SEARCH - Search History (Interference)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	British Equivalents	Time Stamp
N4	2	(secure application environment).clm. AND (H04W76/12 AND H04L12/1457 AND H04L12/4633 AND H04L41/0823 AND	(US-PGPUB; USPAT)	ADJ	ON	ON	2024/11/16 12:01 AM

		H04L67/34 AND H04M15/8033).cpc.					
N5	4	(secure application environment).clm. AND (H04W76/12 OR H04L12/1457 OR H04L12/4633 OR H04L41/0823 OR H04L67/34 OR H04M15/8033).cpc.	(US-PGPUB; USPAT)	ADJ	ON	ON	2024/11/16 12:02 AM
N6	2	(policy AND secure application environment).clm. AND (H04W76/12 OR H04L12/1457 OR H04L12/4633 OR H04L41/0823 OR H04L67/34 OR H04M15/8033).cpc.	(US-PGPUB; USPAT)	ADJ	ON	ON	2024/11/16 12:02 AM
N7	2	(instance AND secure application AND policy).clm. AND (H04W76/12 OR H04L12/1457 OR H04L12/4633 OR H04L41/0823 OR H04L67/34 OR H04M15/8033).cpc.	(US-PGPUB; USPAT)	ADJ	ON	ON	2024/11/16 12:03 AM
N8	2	(tunnel AND secure application AND policy).clm. AND (H04W76/12 OR H04L12/1457 OR H04L12/4633 OR H04L41/0823 OR H04L67/34 OR H04M15/8033).cpc.	(US-PGPUB; USPAT)	ADJ	ON	ON	2024/11/16 12:03 AM
N9	2	(tunnel AND secure application AND policy AND instance).clm. AND (H04W76/12 OR H04L12/1457 OR H04L12/4633 OR H04L41/0823 OR H04L67/34 OR H04M15/8033).cpc.	(US-PGPUB; USPAT)	ADJ	ON	ON	2024/11/16 12:04 AM
N10	0	(vpn AND secure application AND policy AND instance).clm. AND (H04W76/12 OR H04L12/1457 OR H04L12/4633 OR H04L41/0823 OR H04L67/34 OR H04M15/8033).cpc.	(US-PGPUB; USPAT)	ADJ	ON	ON	2024/11/16 12:04 AM

N11	1	(H04W76/12 AND H04L12/14 AND H04M15/00 AND H04L12/46 AND H04L41/0823 AND H04L67/00).ipc.	(US-PGPUB; USPAT)	ADJ	ON	ON	2024/11/16 12:07 AM
N12	2	(secure application environment).clm. AND (H04W76/12 OR H04L12/14 OR H04M15/00 OR H04L12/46 OR H04L41/0823 OR H04L67/00).ipc.	(US-PGPUB; USPAT)	ADJ	ON	ON	2024/11/16 12:09 AM
N14	2	(policy AND secure application environment).clm. AND (H04W76/12 OR H04L12/14 OR H04M15/00 OR H04L12/46 OR H04L41/0823 OR H04L67/00).ipc.	(US-PGPUB; USPAT)	ADJ	ON	ON	2024/11/16 12:09 AM
N15	2	(instance AND secure application AND policy).clm. AND (H04W76/12 OR H04L12/14 OR H04M15/00 OR H04L12/46 OR H04L41/0823 OR H04L67/00).ipc.	(US-PGPUB; USPAT)	ADJ	ON	ON	2024/11/16 12:09 AM
N16	2	(tunnel AND secure application AND policy).clm. AND (H04W76/12 OR H04L12/14 OR H04M15/00 OR H04L12/46 OR H04L41/0823 OR H04L67/00).ipc.	(US-PGPUB; USPAT)	ADJ	ON	ON	2024/11/16 12:09 AM
N17	2	(tunnel AND secure application AND policy AND instance).clm. AND (H04W76/12 OR H04L12/14 OR H04M15/00 OR H04L12/46 OR H04L41/0823 OR H04L67/00).ipc.	(US-PGPUB; USPAT)	ADJ	ON	ON	2024/11/16 12:09 AM
N18	0	(vpn AND secure application AND policy AND instance).clm. AND (H04W76/12 OR H04L12/14 OR H04M15/00 OR	(US-PGPUB; USPAT)	ADJ	ON	ON	2024/11/16 12:10 AM

		H04L12/46 OR H04L41/0823 OR H04L67/00).ipc.					
N19	11	(secure application environment).clm.	(US-PGPUB; USPAT)	ADJ	ON	ON	2024/11/16 12:10 AM
N20	2	(policy AND secure application environment).clm.	(US-PGPUB; USPAT)	ADJ	ON	ON	2024/11/16 12:10 AM
N21	4	(instance AND secure application AND policy).clm.	(US-PGPUB; USPAT)	ADJ	ON	ON	2024/11/16 12:10 AM
N22	12	(tunnel AND secure application AND policy).clm.	(US-PGPUB; USPAT)	ADJ	ON	ON	2024/11/16 12:10 AM
N23	2	(tunnel AND secure application AND policy AND instance).clm.	(US-PGPUB; USPAT)	ADJ	ON	ON	2024/11/16 12:10 AM
N24	0	(vpn AND secure application AND policy AND instance).clm.	(US-PGPUB; USPAT)	ADJ	ON	ON	2024/11/16 12:11 AM
N25	1119	((("RALEIGH") near3 ("Gregory")) OR (("RAISSINIA") near3 ("Alireza")) OR (("GREEN") near3 ("Jeffrey"))).INV.	(US-PGPUB; USPAT)	ADJ	ON	ON	2024/11/16 12:12 AM
N26	224	((("HEADWATER") near3 ("RESEARCH") near3 ("LLC"))).AS,AANM.	(US-PGPUB; USPAT)	ADJ	ON	ON	2024/11/16 12:12 AM
N27	224	N25 AND N26	(US-PGPUB; USPAT)	ADJ	ON	ON	2024/11/16 12:12 AM

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Alexandria, VA 22313 - 1450
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ELECTRONIC ACKNOWLEDGEMENT RECEIPT

APPLICATION #	RECEIPT DATE / TIME	ATTORNEY DOCKET #
17/567,594	**11/14/2024 07:31:51 PM Z ET**	**RALEP037D1C1C1C1C1**

Title of Invention

Enterprise Access Control and Accounting Allocation for Access Networks

Application Information

APPLICATION TYPE	Utility - Nonprovisional Application under 35 USC 111(a)	PATENT #	-
CONFIRMATION #	1081	FILED BY	Evan Gunderman
PATENT CENTER #	67974184	FILING DATE	01/03/2022
CUSTOMER #	106963	FIRST NAMED INVENTOR	Gregory G. Raleigh
CORRESPONDENCE ADDRESS	-	AUTHORIZED BY	Michael Farjami

Documents

TOTAL DOCUMENTS: 4

DOCUMENT	PAGES	DESCRIPTION	SIZE (KB)
RALEP037D1C1C1C1C1_IDS_Nov_14_24.pdf	3	Information Disclosure Statement (IDS) Form (SB08)	733 KB
Warning: This is not a USPTO supplied IDS fillable form. Data in the form cannot be automatically loaded to other USPTO systems.			
RALEP032C1C4 Order Granting Request for Ex Parte Reexamination dated Oct 23 24.pdf	41	Non Patent Literature	1537 KB
RALEP032C1C6 Order Granting Request for Ex Parte Reexamination dated November 8 2024.pdf	27	Non Patent Literature	1102 KB
RALEP032C1C14 Order Granting Request for Ex	17	Non Patent Literature	685 KB

Parte Reexamination dated November 8 2024.pdf

Digest

DOCUMENT	MESSAGE DIGEST(SHA-512)
RALEP037D1C1C1C1C1_IDS_Nov_14_24.pdf	D674AE4884970DEA3E85F6F88B44DD70E9FD6837A61F97DC3E3F2AE99707684C8355D86BCEF83E460BC9474FAAED69B85970C70435DE1286DFE2E49216769D92
RALEP032C1C4 Order Granting Request for Ex Parte Reexamination dated Oct 23 24.pdf	785243A596D6358C83F083E117FCE0071012668C8ACF134E8B4A618D28AED3B9D240D6A435B588420728D468530A4CDA169DB49AEC2226D7C860A4FFFDCBB1DF
RALEP032C1C6 Order Granting Request for Ex Parte Reexamination dated November 8 2024.pdf	8181C7E48D733EA50E4E8C4161B765FB35B3F739D8673092E2D630A39F006A733743C3EA24A0DC3EC0B30A1C707A08E86896D51BBC09CC4C671E46DDF94BDE9A
RALEP032C1C14 Order Granting Request for Ex Parte Reexamination dated November 8 2024.pdf	646DB2E62F1381BD399B3514F819F2B7FF9D0AB06C60D0AB8357B50E060876FDCEDD6380B8C9EF57980BB8D93F606F846F1286707DBD7000ECB31D893A0A717D

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.

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	17567594
	Filing Date	2022-01-03
	First Named Inventor	RALEIGH, GREGORY
	Art Unit	2458
	Examiner Name	Naoreen, Nazia
	Attorney Docket Number	RALEP037D1C1C1C1C1

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					

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
	1					

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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

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]

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	17567594
	Filing Date	2022-01-03
	First Named Inventor	RALEIGH, GREGORY
	Art Unit	2458
	Examiner Name	Naoreen, Nazia
	Attorney Docket Number	RALEP037D1C1C1C1C1

	1	Reexamination Application Serial No. 90/119,610 - Order Granting Request for Ex Parte Reexamination of Patent No. 9,143,976, dated Oct 23, 24	☐
	2	Reexamination Application Serial No. 90/019,644 - Order Granting Request for Ex Parte Reexamination of Patent No. 9,277,445, dated November 8, 2024	☐
	3	Reexamination Application Serial No. 90/019,643 - Order Granting Request for Ex Parte Reexamination of Patent No. 9,271,184, dated November 8, 2024	☐

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

EXAMINER SIGNATURE

Examiner Signature		Date Considered	

*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	17567594
	Filing Date	2022-01-03
	First Named Inventor	RALEIGH, GREGORY
	Art Unit	2458
	Examiner Name	Naoreen, Nazia
	Attorney Docket Number	RALEP037D1C1C1C1C1

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)	2024-11-14
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.**

United States Patent and Trademark Office

Office of the Chief Financial Officer

October 16, 2024

Farjami & Farjami LLP
Attn: EVAN C. GUNDERMAN
26522 La Alameda Ave., Suite 360
Mission Viejo, CA 92691

Dear Sir/Madam,

The United States Patent and Trademark Office (USPTO) has reviewed your refund request for Reference Number **17567594** - Refund Request ID **REFND-20241008-52968**. Below is the current status of your refund request assigned to the following processing area: Office of Patent Examination Support Services

Fee code	Decision	Decision Reason(s)	Refund Amount
2806	Approved	No Fee Due	$104.00

Generally, approved refunds will be issued in the form that the original payment was provided. You will receive a separate decision letter for any additional fee codes assigned to other processing areas, if applicable. Decisions may be subject to change if an error is identified.

For questions related to this decision, contact the Case Resolution Team at (571) 272-1720 or case.resolution@USPTO.GOV.

Thank you,
Refund Branch



United States Patent and Trademark Office

Office of the Chief Financial Officer

Document Code:WFEE

User :Bonnie Cole

Sale Adjustment Accounting Date:10/16/2024

Effective Date	Sale Accounting Date	Sale Item Reference Number
10/16/2024	10/16/2024	17567594

Document Number	Fee Code	Fee Code Description	Amount Paid	Payment Method
I20240FC52295127	2806	SUBMISSION- INFORMATION DISCLOSURE STMT	$104.00	DA

United States Patent and Trademark Office

Office of the Chief Financial Officer

Document Code:WFEE

User :Bonnie Cole

Refund Accounting Date:10/16/2024

Effective Date	Sale Item Reference Number	Refund Total
10/16/2024	17567594	$104.00

Document Number	Fee Code	Fee Code Description	Amount Paid	Payment Method	Account Number
I20240FC52295127	2806	SUBMISSION-INFORMATION DISCLOSURE STMT	$104.00	DA	500731

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Alexandria, VA 22313 - 1450
www.uspto.gov

ELECTRONIC ACKNOWLEDGEMENT RECEIPT

APPLICATION #	RECEIPT DATE / TIME	ATTORNEY DOCKET #
17/567,594	**10/07/2024 05:25:53 PM Z ET**	**RALEP037D1C1C1C1C1**

Title of Invention

Enterprise Access Control and Accounting Allocation for Access Networks

Application Information

APPLICATION TYPE	Utility - Nonprovisional Application under 35 USC 111(a)	PATENT #	-
CONFIRMATION #	1081	FILED BY	Evan Gunderman
PATENT CENTER #	67467893	FILING DATE	01/03/2022
CUSTOMER #	106963	FIRST NAMED INVENTOR	Gregory G. Raleigh
CORRESPONDENCE ADDRESS	-	AUTHORIZED BY	Michael Farjami

Documents

TOTAL DOCUMENTS: 1

DOCUMENT	PAGES	DESCRIPTION	SIZE (KB)
RALEP037D1C1C1C1C1 Let to PTO re Refund Request for 104 Charged to DA.pdf	2	Refund Request	27 KB

Digest

DOCUMENT	MESSAGE DIGEST(SHA-512)
RALEP037D1C1C1C1C1 Let to PTO re Refund Request for 104 Charged to DA.pdf	97EB27D2EDEB25046D93B51339DC342B1642D770CA4333E40 F82F89CCE8A40B4D009A51A4DC73A547D7F5C9BA4D615EC4 564F71D0A2EECB67FC5242300DA0B28

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.

FARJAMI & FARJAMI LLP
An Intellectual Property Law Firm

EVAN C. GUNDERMAN
egunderman@farjami.com

October 7, 2024

Via Electronic Filing System (EFS)

Refunds Branch
Director of the United States Patent and Trademark Office
Attn: Deposit Accounts
2051 Jamieson Avenue, Suite 300
Alexandria, VA 22314

Re: Title: "Enterprise Access Control and Accounting Allocation for Access Networks"
Application Serial No.: 17/567,594
Amount of Charge: $104.00; Fee Code: 2806; Date of Charge: 6/26/2024
Attorney Docket No.: RALEP037D1C1C1C1C1

Dear Refunds Branch:

Please refund $104.00 to our Deposit Account, as we believe it was charged to our deposit account in error.

One June 25, 2024 we filed an Information Disclosure Statement in the above referenced application. The Application had a Non-Final Office Action attached to it which we had filed a response to on May 30, 2024, but there was no Final Office Action or Notice of Allowance issued.

However, on June 26, 2024, we were charged $104.00 to our Deposit Account under fee code 2806 (Submission of an Information Disclosure Statement). But, because of the status of Office Action associated with the application at the time of the IDS filing, this fee does not apply. As such, we should be refunded $104.00 charged to our Deposit Account on June 26, 2024.

Please advise when the refund of $104.00 will be made by way of a credit to our Deposit Account. Thank you for your assistance in this matter.

Sincerely,
FARJAMI & FARJAMI LLP

/evan c. gunderman/

Evan C. Gunderman

26522 La Alameda Ave., Suite 360
Mission Viejo, California 92691
tel: (949) 282-1000
fax: (949) 282-1002

Paralegal

UNITED STATES
PATENT AND TRADEMARK OFFICE

P.O. Box 1450
Alexandria, VA 22313 - 1450
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ELECTRONIC PAYMENT RECEIPT

APPLICATION #	RECEIPT DATE / TIME	ATTORNEY DOCKET #
17/567,594	**09/23/2024 06:45:55 PM Z ET**	**RALEP037D1C1C1C1C1**

Title of Invention

Enterprise Access Control and Accounting Allocation for Access Networks

Application Information

APPLICATION TYPE	Utility - Nonprovisional Application under 35 USC 111(a)	PATENT #	-
CONFIRMATION #	1081	FILED BY	Evan Gunderman
PATENT CENTER #	67289064	AUTHORIZED BY	Michael Farjami
CUSTOMER #	106963	FILING DATE	01/03/2022
CORRESPONDENCE ADDRESS	-	FIRST NAMED INVENTOR	Gregory G. Raleigh

Payment Information

PAYMENT METHOD	PAYMENT TRANSACTION ID	PAYMENT AUTHORIZED BY
CARD / 5006	**E20249MI47226868**	**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($)	QUANTITY	ITEM TOTAL($)
2806	SUBMISSION OF AN INFORMATION DISCLOSURE STATEMENT	104.00	1	104.00
			TOTAL AMOUNT:	**$104.00**

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CUSTOMER #	106963	FIRST NAMED INVENTOR	Gregory G. Raleigh
CORRESPONDENCE ADDRESS	-	AUTHORIZED BY	Michael Farjami

Documents

TOTAL DOCUMENTS: 1

DOCUMENT	PAGES	DESCRIPTION	SIZE (KB)
RALEP037D1C1C1C1C1_IDS_Sept_23_24.pdf	3	Information Disclosure Statement (IDS) Form (SB08)	709 KB

Warning: This is not a USPTO supplied IDS fillable form. Data in the form cannot be automatically loaded to other USPTO systems.

Digest

DOCUMENT	MESSAGE DIGEST(SHA-512)
RALEP037D1C1C1C1C1_IDS_Sept_23_24.pdf	05FF88AD6ABF32C3870BCD42F2E53A5D3A6AD1E2D63EE3B9D92095A348AF78DE432A048A5632C9B9711CF24E4D41E9E124B3D4DFDA8781516C84F9E795B72CF1

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PTO/SB/08a (01-22)
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (**Not for submission under 37 CFR 1.99)**		
	Application Number	17567594
	Filing Date	2022-01-03
	First Named Inventor	RALEIGH, GREGORY
	Art Unit	2458
	Examiner Name	Naoreen, Nazia
	Attorney Docket Number	RALEP037D1C1C1C1C1

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
	1	20070271598		2007-11-22	Chen; Lee et al.	
	2	20060153122		2006-07-13	Hinman; Brian L. et al.	
	3	20020152319		2002-10-17	Amin, Rajesh B. et al.	

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]
	1							☐

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	17567594
	Filing Date	2022-01-03
	First Named Inventor	RALEIGH, GREGORY
	Art Unit	2458
	Examiner Name	Naoreen, Nazia
	Attorney Docket Number	RALEP037D1C1C1C1C1

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NON-PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T[5]
	1		☐

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EXAMINER SIGNATURE

Examiner Signature		Date Considered	

*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	17567594
	Filing Date	2022-01-03
	First Named Inventor	RALEIGH, GREGORY
	Art Unit	2458
	Examiner Name	Naoreen, Nazia
	Attorney Docket Number	RALEP037D1C1C1C1C1

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)	2024-09-23
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.**

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)**		
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	Examiner Name	Naoreen, Nazia
	Attorney Docket Number	RALEP037D1C1C1C1C1

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	5,987,611		1999-11-16	Freund; Gregor	
	2	8,886,261		2014-11-11	Aerrabotu; Naveen	
	3	8,413,172		2013-04-02	Sng; Swee Huat	
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
	1	20040224668		2004-11-11	Shell, Scott R. et al.	
	2	20080080458		2008-04-03	COLE; TERRY L.	
	3	20090217065		2009-08-27	Araujo, JR.; Nelson S.	

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	Examiner Name	Naoreen, Nazia
	Attorney Docket Number	RALEP037D1C1C1C1C1

	4	20090207817		2009-08-20	Montemurro; Michael et al.	
	5	20090210537		2009-08-20	Irwin; James et al.	
	6	20090093247		2009-04-09	Srinivasan; Malayala R.	
	7	20060039354		2006-02-23	Rao; Goutham P. et al.	

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]
	1	03/100581	WO		2003-12-04	Symbian Limited		☐

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NON-PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T[5]
	1	Complaint for Patent Infringement in Headwater Research LLC v. Samsung Electronics Co., Ltd. et al., 2-23-cv-00641 (EDTX), Dec. 29, 2023)	☐
	2	David Flanagan, O'Reilly & Associates, Inc., "Java in a Nutshell," 1996, ISBN: 1-56592-183-6	☐

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	Examiner Name	Naoreen, Nazia
	Attorney Docket Number	RALEP037D1C1C1C1C1

	3	Korhonen, "Host Identity Protocol (HIP) Implementation in the Symbian Environment," Master of Science Thesis, Tampere University of Technology (12/10/2007)	☐
	4	Welsh, "Incorporating Memory Management into User-Level Network Interfaces." IEEE Micro, 18(2), 1998, 10 pages	☐
	5	Carter, Casey et al., "Contact networking: a localized mobility system," Proceedings of the 1st International Conference on Mobile systems, Applications and Services, 2003	☐
	6	S. Lee & N. Golmie, "Power-Efficient Interface Selection Scheme using Paging of WWAN for WLAN in Heterogeneous Wireless Networks," 2006 IEEE International Conference on Communications (Istanbul, 2006), 1742–1747	☐
	7	M. Stemm et al., "A network measurement architecture for adaptive applications," Proceedings of the 2000 IEEE INFOCOM Conference on Computer Communications. Nineteenth Annual Joint Conference of the IEEE Computer and Communications Societies (Cat. No.00CH37064), Tel Aviv, Israel, 2000, 285-294	☐
	8	K. Ravindran & V. Bansal, "Delay compensation protocols for synchronization of multimedia data streams," IEEE Transactions on Knowledge and Data Engineering, Vol. 5, No. 4, 574-589, Aug. 1993	☐
	9	D. C. Verma, "Simplifying network administration using policy-based management." IEEE Network, Vol. 16, No. 2, 20-26, Mar. 2002	☐
	10	G. Nychis & D. R. Licata, "The impact of background network traffic on foreground network traffic." Proceedings of the IEEE Global Telecommunications Conference (GLOBECOM), 2001	☐
	11	I. Pronchev. "Packet Capturing Using the Linux Netfilter Framework." Technical Report, Technische Universität München, 1-31, July 2006	☐
	12	A.-J. Moerdijk and L. Klostermann, "Opening the networks with Parlay/OSA: standards and aspects behind the APIs." IEEE Network, vol. 17, no. 3, pp. 58-64, May-June 2003	☐
	13	J. B. D. Joshi, E. Bertino, U. Latif and A. Ghafoor, "A generalized temporal role-based access control model." IEEE Transactions on Knowledge and Data Engineering, vol. 17, no. 1, pp. 4-23, Jan. 2005	☐

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	14	Lymberopoulos et al., "An Adaptive Policy-Based Framework for Network Services Management," Journal of Network and Systems Management, Vol. 11, No. 3, September 2003	☐
	15	Richard Stevens et al., "UNIX Network Programming Volume 1, Third Edition: The Sockets Networking API," 2004, ISBN: 0-13-141155-1	☐
	16	IPR2024-01407 PETITION FOR INTER PARTES REVIEW OF UNITED STATES PATENT NO. 9,179,359	☐

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

EXAMINER SIGNATURE

Examiner Signature		Date Considered	

*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.

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☒ A certification statement is not submitted herewith.

SIGNATURE

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Signature	/Farshad Farjami/	Date (YYYY-MM-DD)	2024-09-19
Name/Print	Farshad Farjami	Registration Number	41014

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ELECTRONIC ACKNOWLEDGEMENT RECEIPT

APPLICATION #	RECEIPT DATE / TIME	ATTORNEY DOCKET #
17/567,594	**09/19/2024 02:43:04 PM Z ET**	**RALEP037D1C1C1C1C1**

Title of Invention

Enterprise Access Control and Accounting Allocation for Access Networks

Application Information

APPLICATION TYPE	Utility - Nonprovisional Application under 35 USC 111(a)	PATENT #	-
CONFIRMATION #	1081	FILED BY	Evan Gunderman
PATENT CENTER #	67242558	FILING DATE	01/03/2022
CUSTOMER #	106963	FIRST NAMED INVENTOR	Gregory G. Raleigh
CORRESPONDENCE ADDRESS	-	AUTHORIZED BY	Michael Farjami

Documents

TOTAL DOCUMENTS: 18

DOCUMENT	PAGES	DESCRIPTION	SIZE (KB)
RALEP037D1C1C1C1C1_IDS_Sept_19_24.pdf	5	Information Disclosure Statement (IDS) Form (SB08)	1124 KB
Warning: This is not a USPTO supplied IDS fillable form. Data in the form cannot be automatically loaded to other USPTO systems.			
Exhibit 1010 Dive-Reclus WO03100581.pdf	24	Foreign Reference	20239 KB
Exhibit 1004 Complaint.pdf	26	Non Patent Literature	1159 KB
Exhibit 1011 Flanagan.pdf	4	Non Patent Literature	1257 KB
Exhibit 1014 Korhonen.pdf	70	Non Patent Literature	3648 KB
Exhibit 1016 Welsh.pdf	10	Non Patent Literature	8912 KB
Exhibit 1019 Carter.pdf	15	Non Patent Literature	24893 KB

Exhibit 1021 Lee.pdf	6	Non Patent Literature	6241 KB
Exhibit 1022 Stemm.pdf	10	Non Patent Literature	2055 KB
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Exhibit 1025 Nychis.pdf	5	Non Patent Literature	757 KB
Exhibit 1026 Pronchev.pdf	34	Non Patent Literature	2290 KB
Exhibit 1027 Moerdijk.pdf	7	Non Patent Literature	6112 KB
Exhibit 1028 Joshi.pdf	20	Non Patent Literature	3621 KB
Exhibit 1029 Lymberopoulos.pdf	27	Non Patent Literature	1745 KB
Exhibit 1030 Stevens.pdf	14	Non Patent Literature	4025 KB
IPR2024-01407 Petition for Inter Partes Review.pdf	93	Non Patent Literature	5613 KB

Digest

DOCUMENT	MESSAGE DIGEST(SHA-512)
RALEP037D1C1C1C1C1_IDS_Sept_19_24.pdf	5A86A636F0FD48BC04C8CEDA1CD5662E16BF89E91686A6D9A44D89B7E133A73523860506CD33FCAD8D5792557AD8F144CF0E4D9E11A5C26D960DEB2048D0EF1C
Exhibit 1010 Dive-Reclus WO03100581.pdf	CE8BAC801B62870C462C681C4F69BB8A93C48D3FCF461C61AEA062F8EFF4E23E8C80F481836622404F5F28FD910300C8BC8900EB0116F2350F4FC03CA513ECCF
Exhibit 1004 Complaint.pdf	2505EC526EBB84480F93FBC407879CCA7F7BF33E4CBF1CA16684DA759ED6EA33A8E9CC16F72B26D996EE4FEB9AFC9E486C7F74B94735CB37AF29ADD500AD5C62
Exhibit 1011 Flanagan.pdf	94F9D3288BA3177A6D1A05549E5A177E2DAC2D97FB15253CD932385640A094ED25EBEBFC6DFE7C1E99B533A955521039C7478A0B02ADE91EA7036C51BBC2FF61
Exhibit 1014 Korhonen.pdf	D8424590E4BB648198C5E0E32187575D34DABFEADB73E5DEE1B9EF9E3F68BD2904FA65A895182225EDAE21E7FDFBEFEEE71049DFEF145373A63EAE9BAD988FC3
Exhibit 1016 Welsh.pdf	D120A80429A58DCDB485608E8B033F8C594AFF8FD83BAA2B083896C3CD79576C45EC9BD683888A760E2AD77B794ECEF99EEE57C7F589C35DEEB0F59B4F1A0700
Exhibit 1019 Carter.pdf	E5D663CA7C0D06179C729FB255A293EE1AF2506D9BAEC2F4

	6B4878267CD9E35804EC01CC130C275C5C269AF8C63D59DD 98791CB59105FA35DFC1F8F3FCE9323B
Exhibit 1021 Lee.pdf	A67298712F311597486C5B4EF986966C509E1EEB49F3A4A57C B3F184B5D2E253BFA3F55E7981E2A30FEE0A2E5497999C37E 3F8C26D13365774D5CB16CCF66B0D
Exhibit 1022 Stemm.pdf	AAA407FBB96E9CCF5C8F4E2BC71945600BBC49C6777E626D 7D7FC485EA5D8E8D3C10515CEBA41DDD0E433D22BD5834F 5CB8C848A8B6EC5A773887101FB12E297
Exhibit 1023 Ravindran.pdf	73928E481FB648662D7DA58BDE1A2B8433C82EEC18008040F 1F259E49526656B5B46DB5B1AE0C7421737FBBC88B1DD3DE 40745F104D3307E259AB9C0EB0A6730
Exhibit 1024 Verma.pdf	A9CCFF3286F9E5531C4B30FFADDE1ED76FD65AFF2DD43AE C219B6FE44FF623785A39D9A9D39BF3C486BB937EAE2AF70 B1A61E0BFA15B9F2AA24EDBEEE04890F0
Exhibit 1025 Nychis.pdf	EAE38AF7E3C3B5D530C8B1AE609C99B84BDD157684A7217A 138358936341BA451FA0DDB02B794FB5625BDD95969ACAFD DC7DD3153612FE24D3923B2FBC091EF9
Exhibit 1026 Pronchev.pdf	5F3C3CF47E9729FF956D740B9BD91F23D96F04162F1A696B8 4DA63B29FFC89C4002D977E6705CFA207CE809E91A500D819 EB26B4FD173E9F2E58CFCDEF6BA4C5
Exhibit 1027 Moerdijk.pdf	C01F1684A8A6223436A21448D0195594BC2747522846913B5C 6670B14667C91F488D7B895F13D0FE586897F49B81E603ADD E4A65472B335C6F9DDD573E2DB0E1
Exhibit 1028 Joshi.pdf	A33906BC5C1EF8D1EEA8B571C54A1D0BB3D8F2A757B25E18 D4E4EB40E264ECA1BE0E81D1ABBF21A3418DF33B5B9621EA 595B6670A30AF2088EEF5D041E0296EF
Exhibit 1029 Lymberopoulos.pdf	B500ED751AE1F1FD181933CD42D66EF4420A6C1F90EB5B622 01D92F61AABB93F443865686C2761C867ED53F7FA222427AD 19C8DC975619E87487242E7AB270C0
Exhibit 1030 Stevens.pdf	497ABE5EF08A3B91643D1824FBFE2710E26E5A236235FF2749 5CDCFD660F14B23C17A7F44D7FE0CE1681C4FCDF883DE676 CD07641FC14D2A1AE2371D9AA62C3F
IPR2024-01407 Petition for Inter Partes Review.pdf	811F766D3316720E8E8F5911403FF2B14712E6F85E01A3C15A C03368EF384F5B6986CA889657F53FAD6BFA54B327A84BEE3 6504B39BF1F09D7F075017D2260D7

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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.

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ELECTRONIC PAYMENT RECEIPT

APPLICATION #	RECEIPT DATE / TIME	ATTORNEY DOCKET #
17/567,594	**09/19/2024 02:43:04 PM Z ET**	**RALEP037D1C1C1C1C1**

Title of Invention

Enterprise Access Control and Accounting Allocation for Access Networks

Application Information

APPLICATION TYPE	Utility - Nonprovisional Application under 35 USC 111(a)	PATENT #	-
CONFIRMATION #	1081	FILED BY	Evan Gunderman
PATENT CENTER #	67242558	AUTHORIZED BY	Michael Farjami
CUSTOMER #	106963	FILING DATE	01/03/2022
CORRESPONDENCE ADDRESS	-	FIRST NAMED INVENTOR	Gregory G. Raleigh

Payment Information

PAYMENT METHOD	PAYMENT TRANSACTION ID	PAYMENT AUTHORIZED BY
CARD / 5006	**E20249IE44086318**	**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($)	QUANTITY	ITEM TOTAL($)
2806	SUBMISSION OF AN INFORMATION DISCLOSURE STATEMENT	104.00	1	104.00
			TOTAL AMOUNT:	**$104.00**

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (**Not for submission under 37 CFR 1.99)**		
	Application Number	17567594
	Filing Date	2022-01-03
	First Named Inventor	RALEIGH, GREGORY
	Art Unit	2458
	Examiner Name	Naoreen, Nazia
	Attorney Docket Number	RALEP037D1C1C1C1C1

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	5987611		1999-11-16	Freund; Gregor	
	2	8028060		2011-09-27	Wyld; Jeremy et al.	
	3	8914783		2014-12-16	Van Camp; Kim O	
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
	1	20060039354		2006-02-23	Rao; Goutham P. et al.	
	2	20100017506		2010-01-21	Fadell; Anthony	
	3	20070038763		2007-02-15	Oestvall; Magnus Evert	

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	17567594
	Filing Date	2022-01-03
	First Named Inventor	RALEIGH, GREGORY
	Art Unit	2458
	Examiner Name	Naoreen, Nazia
	Attorney Docket Number	RALEP037D1C1C1C1C1

	4	20090207817		2009-08-20	Montemurro; Michael et al.	

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]
	1							☐

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NON-PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T[5]
	1		☐

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Examiner Signature		Date Considered	

*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	17567594
	Filing Date	2022-01-03
	First Named Inventor	RALEIGH, GREGORY
	Art Unit	2458
	Examiner Name	Naoreen, Nazia
	Attorney Docket Number	RALEP037D1C1C1C1C1

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)	2024-09-11
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.**

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

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

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

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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.

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ELECTRONIC PAYMENT RECEIPT

APPLICATION #	RECEIPT DATE / TIME	ATTORNEY DOCKET #
17/567,594	**09/11/2024 07:08:17 PM Z ET**	**RALEP037D1C1C1C1C1**

Title of Invention

Enterprise Access Control and Accounting Allocation for Access Networks

Application Information

APPLICATION TYPE	Utility - Nonprovisional Application under 35 USC 111(a)	PATENT #	-
CONFIRMATION #	1081	FILED BY	Evan Gunderman
PATENT CENTER #	67140177	AUTHORIZED BY	Michael Farjami
CUSTOMER #	106963	FILING DATE	01/03/2022
CORRESPONDENCE ADDRESS	-	FIRST NAMED INVENTOR	Gregory G. Raleigh

Payment Information

PAYMENT METHOD	PAYMENT TRANSACTION ID	PAYMENT AUTHORIZED BY
CARD / 5006	**E20249AJ09269104**	**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($)	QUANTITY	ITEM TOTAL($)
2806	SUBMISSION OF AN INFORMATION DISCLOSURE STATEMENT	104.00	1	104.00
			TOTAL AMOUNT:	**$104.00**

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New Applications Under 35 U.S.C. 111

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ELECTRONIC ACKNOWLEDGEMENT RECEIPT

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CUSTOMER #	106963	FIRST NAMED INVENTOR	Gregory G. Raleigh
CORRESPONDENCE ADDRESS	-	AUTHORIZED BY	Michael Farjami

Documents

TOTAL DOCUMENTS: 1

DOCUMENT	PAGES	DESCRIPTION	SIZE (KB)
RALEP037D1C1C1C1C1_IDS_Sept_11_24.pdf	4	Information Disclosure Statement (IDS) Form (SB08)	1165 KB

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Digest

DOCUMENT	MESSAGE DIGEST(SHA-512)
RALEP037D1C1C1C1C1_IDS_Sept_11_24.pdf	6B0F231674D3AA639D3238F13D913A5329CFF1DE90ED95430E51B69EAEBAE7FD55664DFA1A420308B187CCF3A9CE9B14B58588136B4445129CC55AB343876E26

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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	17567594
	Filing Date	2022-01-03
	First Named Inventor	RALEIGH, GREGORY
	Art Unit	2458
	Examiner Name	Naoreen, Nazia
	Attorney Docket Number	RALEP037D1C1C1C1C1

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	5,987,611		1999-11-16	Freund; Gregor	
	2	7,821,985		2010-10-26	Van Megen; Friedrich et al.	
	3	6,223,042		2001-04-24	Raffel; Michael Allen	
	4	8,413,172		2013-04-02	Sng; Swee Huat	
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
	1	20040224668		2004-11-11	Shell, Scott R. et al.	
	2	20090207817		2009-08-20	Montemurro; Michael et al.	

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	17567594
	Filing Date	2022-01-03
	First Named Inventor	RALEIGH, GREGORY
	Art Unit	2458
	Examiner Name	Naoreen, Nazia
	Attorney Docket Number	RALEP037D1C1C1C1C1

	3	20090217065		2009-08-27	Araujo, JR.; Nelson S.	
	4	20140226624		2014-08-14	WOO; Kwang Taek et al.	
	5	20070038763		2007-02-15	Oestvall; Magnus Evert	
	6	20060039354		2006-02-23	Rao; Goutham P. et al.	
	7	20070149252		2007-06-28	Jobs; Steven P. et al.	
	8	20100017506		2010-01-21	Fadell; Anthony	
	9	20090210537		2009-08-20	Irwin; James 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]
	1	03/100581	WO		2003-12-04	Symbian Limited		☐

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NON-PATENT LITERATURE DOCUMENTS

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	17567594
	Filing Date	2022-01-03
	First Named Inventor	RALEIGH, GREGORY
	Art Unit	2458
	Examiner Name	Naoreen, Nazia
	Attorney Docket Number	RALEP037D1C1C1C1C1

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]
	1	D. P. Bovet, "Understanding the Linux Kernel," 2000, ISBN: 0-596-00002-2	☐
	2	U.S. Provisional Pat. App. No. 61/082,160	☐
	3	Hinckley et al., "Foreground and background interaction with sensor-enhanced mobile devices," ACM Trans. Comput. Hum. Interact., vol. 12, no. 1, pp. 31–52, Mar. 2005	☐
	4	Petition for Inter Partes Review of U.S. Pat. No. 9,277,445 Pursuant To 35 U.S.C. §§ 311–319, 37 C.F.R. § 42 in Samsung Electronics Co Ltd v. Headwater Research LLC, IPR2023-01462, Paper 2 (PTAB September 28, 2023)	☐
	5	Decision Denying Institution of Inter Partes Review in Samsung Electronics Co Ltd v. Headwater Research LLC, IPR2023-01462, Paper 9 (PTAB March 29, 2024)	☐
	6	File History of U.S. Patent No. 9,277,445	☐
	7	REQUEST FOR EX PARTE REEXAMINATION OF U.S. PATENT NO. 9,277,445	☐
	8	Feldmeier, C.C. "Multiplexing issues in communication system design." In Proceedings of the ACM symposium on Communications architectures & protocols (SIGCOMM '90). Association for Computing Machinery, New York, NY, USA, 209–219, 1990.	☐
	9	Petition for Inter Partes Review of U.S. Pat. No. 9,271,184 Pursuant To 35 U.S.C. §§ 311–319, 37 C.F.R. § 42 in Samsung Electronics Co Ltd v. Headwater Research LLC, IPR2023-01361, Paper 3 (PTAB September 8, 2023)	☐
	10	Decision Denying Institution of Inter Partes Review in Samsung Electronics Co Ltd v. Headwater Research LLC, IPR2023-01361, Paper 10 (PTAB March 29, 2024)	☐

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	17567594
	Filing Date	2022-01-03
	First Named Inventor	RALEIGH, GREGORY
	Art Unit	2458
	Examiner Name	Naoreen, Nazia
	Attorney Docket Number	RALEP037D1C1C1C1C1

	11	Petition for Inter Partes Review of U.S. Pat. No. 9,271,184 Pursuant To 35 U.S.C. §§ 311–319, 37 C.F.R. § 42 in Samsung Electronics Co Ltd v. Headwater Research LLC, IPR2023-01362, Paper 3 (PTAB September 8, 2023)	☐
	12	Decision Denying Institution of Inter Partes Review in Samsung Electronics Co Ltd v. Headwater Research LLC, IPR2023-01362, Paper 10 (PTAB March 29, 2024)	☐
	13	File History of U.S. Patent No. 9,271,184	☐
	14	REQUEST FOR EX PARTE REEXAMINATION OF U.S. PATENT NO. 9,271,184	☐

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

EXAMINER SIGNATURE

Examiner Signature		Date Considered	

*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	17567594
	Filing Date	2022-01-03
	First Named Inventor	RALEIGH, GREGORY
	Art Unit	2458
	Examiner Name	Naoreen, Nazia
	Attorney Docket Number	RALEP037D1C1C1C1C1

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)	2024-09-09
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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ELECTRONIC ACKNOWLEDGEMENT RECEIPT

APPLICATION #	RECEIPT DATE / TIME	ATTORNEY DOCKET #
17/567,594	**09/09/2024 05:06:19 PM Z ET**	**RALEP037D1C1C1C1C1**

Title of Invention

Enterprise Access Control and Accounting Allocation for Access Networks

Application Information

APPLICATION TYPE	Utility - Nonprovisional Application under 35 USC 111(a)	PATENT #	-
CONFIRMATION #	1081	FILED BY	Evan Gunderman
PATENT CENTER #	67103167	FILING DATE	01/03/2022
CUSTOMER #	106963	FIRST NAMED INVENTOR	Gregory G. Raleigh
CORRESPONDENCE ADDRESS	-	AUTHORIZED BY	Michael Farjami

Documents

TOTAL DOCUMENTS: 13

DOCUMENT	PAGES	DESCRIPTION	SIZE (KB)
RALEP037D1C1C1C1C1_IDS_Sept_9_24.pdf	6	Information Disclosure Statement (IDS) Form (SB08)	1498 KB
Warning: This is not a USPTO supplied IDS fillable form. Data in the form cannot be automatically loaded to other USPTO systems.			
AppendixO.pdf	25	Foreign Reference	2578 KB
Bovet.pdf	543	Non Patent Literature	4912 KB
AppendixS.pdf	23	Non Patent Literature	949 KB
AppendixU.pdf	99	Non Patent Literature	1045 KB
1462 Denial.pdf	15	Non Patent Literature	276 KB
Request for Ex Parte Reexamination 9277445.pdf	169	Non Patent Literature	2430 KB

AppendixT.pdf	12	Non Patent Literature	2813 KB
AppendixC.pdf	193	Non Patent Literature	3126 KB
AppendixV.pdf	12	Non Patent Literature	222 KB
AppendixW.pdf	88	Non Patent Literature	1275 KB
AppendixX.pdf	12	Non Patent Literature	222 KB
Request for Ex Parte Reexamination 9271184.pdf	151	Non Patent Literature	2234 KB

Digest

DOCUMENT	MESSAGE DIGEST(SHA-512)
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Request for Ex Parte Reexamination 9277445.pdf	2185DAC827591EE3F8587065BBA456756E77D4F62DD03344353BD390E79A7E8116429A043C3AF91B8A3CFBB359383DEB9AB0CD110EFDEDC887BB948FD1088095
AppendixT.pdf	A440CC2B49388F03C6390BCAC5D6FA43A9F71CAA2DD3C6FEC8F0A28323958E3FAFB79FB100B5D88C88739ABD27F923ACB469FC4F4F0040994917FAC991B552F5
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Request for Ex Parte Reexamination 9271184.pdf	F44EFE6BC4E537FA9AEF2E389689071AAE86D5484D6121F2E 135577B4A5B8144B45ABB5269204F6C3BA72BC9DF1BA3F66E B202B87BF322C8374E921D60E8E6E4

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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ELECTRONIC TRANSMISSION COVER SHEET

Date: September 5, 2024

To: United States Patent and Trademark Office
Examiner: Naoreen, Nazia; Art Unit: 2458

Re: **Application Serial No.: 17/567,594**
Filing Date: 1/3/2022; First-Named Inventor: Raleigh
Attorney Docket No.: RALEP037D1C1C1C1C1

From: Farjami & Farjami LLP

Number of pages including the cover sheet: 9

Message:

Enclosed, please find:

1. Request for Continued Examination; and
2. Amendment and Response to Advisory Action, dated September 4, 2024.

Credit card payment in the amount of **$544.00** as the required Request for Continued Examination 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 **50-0731**.

Thank you.

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REQUEST FOR CONTINUED EXAMINATION (RCE) TRANSMITTAL

Subsection (b) of 35 U.S.C. § 132, effective on May 29, 2000, provides for continued examination of an utility or plant application filed on or after June 8, 1995. See The American Inventors Protection Act of 1999 (AIPA).

Application Number	**17/567,594**
Filing Date	**1/3/2022**
First Named Inventor	**Raleigh**
Group Art Unit	**2458**
Examiner Name	**Naoreen, Nazia**
Attorney Docket Number	**RALEP037D1C1C1C1C1**

This is a Request for Continued Examination (RCE) under 37 C.F.R. § 1.114 of the above-identified application.

NOTE: *37 C.F.R. § 1.114 is effective on May 29, 2000. If the above-identified application was filed prior to May 29, 2000, applicant may wish to consider filing a continued prosecution application (CPA) under 37 C.F.R. § 1.53 (d) (PTO/SB/29) instead of a RCE to be eligible for the patent term adjustment provisions of the AIPA. See Changes to Application Examination and Provisional Application Practice,* Final Rule, 65 *Fed Reg.* 50092 (Aug. 16, 2000); Interim Rule, 65 *Fed. Reg.* 14865 (Mar. 20, 2000), 1233 *Off. Gaz. Pat Office* 47 (Apr. 11, 2000), which established RCE practice.

1. Submission required under 37 C.F.R. § 1.114
   - a. ☐ Previously submitted
     - i. ☐ Consider the amendment(s)/reply under 37 C.F.R. § 1.116 previously filed on_____ (Any unentered amendment(s) referred to above will be entered).
     - ii. ☐ Consider the arguments in the Appeal Brief or Reply Brief previously filed on _____
     - iii. ☐ Other _____
   - b. ☒ Enclosed
     - i. ☒ Amendment/Reply
     - ii. ☐ Affidavit(s)/Declaration(s)
     - iii. ☐ Information Disclosure Statement (IDS)
     - iv. ☐ Other _____
2. Miscellaneous
   - a. ☐ Suspension of action on the above-identified application is requested under 37 C.F.R.§ 1.103(c) for a period of _____ months. (Period of suspension shall not exceed 3 months, Fee under 37 C.F.R. § 1.17(i) **required**)
   - b. ☐ Other _____
3. Fees — The RCE fee under 37 C.F.R. § 1.17(e) is required by 37 C.F.R. § 1.114 when the RCE is filed.
   - a. ☒ The Director is hereby authorized to charge the following fees, or credit any overpayments, to Deposit Account No. **50-0731**
     - i. ☒ RCE fee required under 37 C.F.R. § 1.17(e)
     - ii. ☒ Extension of time fee (37 C.F.R. §§ 1.136 and 1.17)
     - iii. ☐ Other _____
   - b. ☐ Check in the amount of $ _____ enclosed.
   - c. ☒ Payment to be charged by Credit Card in the amount of **$ 544.00**.

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT REQUIRED

Name (Print/Type)	Farshad Farjami, Esq.	*Registration No. (Attorney/Agent)*	41,014
Signature	*/Farshad Farjami/*	*Date*	September 5, 2024

CERTIFICATE OF MAILING OR TRANSMISSION

I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: **Mail Stop RCE**, Commissioner For Patents, P. O. Box 1450, Alexandria, VA 22313-1450, or facsimile transmitted to the U.S. Patent and Trademark Office on:

Name (Print/Type)	Evan C. Gunderman		
Signature	*/evan c. gunderman/*	*Date*	September 5, 2024

UNITED STATES
PATENT AND TRADEMARK OFFICE

P.O. Box 1450
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ELECTRONIC PAYMENT RECEIPT

APPLICATION #	RECEIPT DATE / TIME	ATTORNEY DOCKET #
17/567,594	**09/05/2024 03:33:42 PM Z ET**	**RALEP037D1C1C1C1C1**

Title of Invention

Enterprise Access Control and Accounting Allocation for Access Networks

Application Information

APPLICATION TYPE	Utility - Nonprovisional Application under 35 USC 111(a)	PATENT #	-
CONFIRMATION #	1081	FILED BY	Evan Gunderman
PATENT CENTER #	67060425	AUTHORIZED BY	Michael Farjami
CUSTOMER #	106963	FILING DATE	01/03/2022
CORRESPONDENCE ADDRESS	-	FIRST NAMED INVENTOR	Gregory G. Raleigh

Payment Information

PAYMENT METHOD	PAYMENT TRANSACTION ID	PAYMENT AUTHORIZED BY
CARD / 5006	**E202495F35535402**	**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($)	QUANTITY	ITEM TOTAL($)
2801	REQUEST FOR CONTINUED EXAMINATION (RCE) - 1ST REQUEST (SEE 37 CFR 1.114)	544.00	1	544.00
			TOTAL AMOUNT:	**$544.00**

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.

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PATENT AND TRADEMARK OFFICE

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ELECTRONIC ACKNOWLEDGEMENT RECEIPT

APPLICATION #	RECEIPT DATE / TIME	ATTORNEY DOCKET #
17/567,594	**09/05/2024 03:33:42 PM Z ET**	**RALEP037D1C1C1C1C1**

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Enterprise Access Control and Accounting Allocation for Access Networks

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CONFIRMATION #	1081	FILED BY	Evan Gunderman
PATENT CENTER #	67060425	FILING DATE	01/03/2022
CUSTOMER #	106963	FIRST NAMED INVENTOR	Gregory G. Raleigh
CORRESPONDENCE ADDRESS	-	AUTHORIZED BY	Michael Farjami

Documents

TOTAL DOCUMENTS: 3

DOCUMENT		PAGES	DESCRIPTION	SIZE (KB)
RALEP037D1C1C1C1C1_RCE_Resp_to_Advisory_Action_Sept_5_24.pdf		9	-	109 KB
RALEP037D1C1C1C1C1_RCE_Resp_to_Advisory_Action_Sept_5_24-TRAN.LET.pdf	(1-1)	1	Transmittal Letter	32 KB
RALEP037D1C1C1C1C1_RCE_Resp_to_Advisory_Action_Sept_5_24-RCEX.pdf	(2-2)	1	Request for Continued Examination (RCE)	35 KB
RALEP037D1C1C1C1C1_RCE_Resp_to_Advisory_Action_Sept_5_24-AMSB.pdf	(3-9)	7	Amendment Submitted/Entered with Filing of Continued Prosecution Application (CPA)/Request for	57 KB

Digest

DOCUMENT	MESSAGE DIGEST(SHA-512)
RALEP037D1C1C1C1C1_RCE_Resp_to_Advisory_Action_Sept_5_24.pdf	9078FC2526FC967E87F646572E000A2298EC28A33BFA5767641108826ACF9B5FB43671BD4075B806B67BE2DF4169F3B1BDE2CC04D0D79F2CC17C43B1827CD950
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If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

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

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: **Raleigh et al.** Application Serial No.: **17/567,594** Filed: **1/3/2022** Title: **Enterprise Access Control and Accounting Allocation for Access Networks**	Group Art Unit: 2458 Examiner: Naoreen, Nazia

AMENDMENT AND RESPONSE TO *ADVISORY* ACTION

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

Dear Sir/Madam:

This is in response to the *Advisory* Action, dated September 4, 2024, in the above-referenced patent application. Please enter and consider the following amendments and remarks in light of the attached *Request for Continued Examination* filed under 37 CFR 1.114 in the above-identified 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.

In the Claims:

Claim 1 (Cancelled)

Claim 2 (Currently Amended): A method of operating a wireless end-user device, the method comprising:

providing first access policy information indicative of an execution environment policy;

providing second access policy information indicative of a security policy;

based on the first access policy information indicative of the execution environment policy:

~~allowing~~ requiring a first set of device application instances to run ~~only~~ in a secure application environment on the wireless end-user device, and to not run outside of the secure application environment;

based on the second access policy information indicative of the security policy:

establishing a first secure tunnel to a network tunnel endpoint; and

directing all network data communications to and from the first set of device application instances, which are running only in the secure application environment, through the first secure tunnel.

Claim 3 (Previously Presented): The method of claim 2, wherein the security policy defines a first configuration indicating that a second set of device application instances are not allowed to use the first secure tunnel.

Claim 4 (Previously Presented): The method of claim 3, wherein the first set of device application instances are used on behalf of an enterprise and the second set of device application instances are personal to a user of the wireless end-user device.

Claim 5 (Previously Presented): The method of claim 4, further comprising:

associating the first set of device application instances with the enterprise.

Claim 6 (Previously Presented): The method of claim 4, further comprising:

associating the second set of device application instances as being personal to the user.

Claim 7 (Previously Presented): The method of claim 2, wherein the first secure tunnel forms a portion of a virtual private network, VPN.

Claim 8 (Currently Amended): A wireless end-user device comprising:

a processor configured to:

provide first access policy information indicative of an execution environment policy;

provide second access policy information indicative of a security policy;

based on the first access policy information indicative of the execution environment policy:

~~allow~~ require a first set of device application instances to run ~~only~~ in a secure application environment on the wireless end-user device, and to not run outside of the secure application environment;

based on the second access policy information indicative of the security policy:

establish a first secure tunnel to a network tunnel endpoint; and

direct all network data communications to and from the first set of device application instances, which are running only in the secure application environment, through the first secure tunnel.

Claim 9 (Previously Presented): The wireless end-user device of claim 8, wherein the security policy defines a first configuration indicating that a second set of device application instances are not allowed to use the first secure tunnel.

Claim 10 (Previously Presented): The wireless end-user device of claim 9, wherein the first set of device application instances are used on behalf of an enterprise and the second set of device application instances are personal to a user of the wireless end-user device.

Claim 11 (Previously Presented): The wireless end-user device of claim 10, wherein the processor is further configured to:

associate the first set of device application instances with the enterprise.

Claim 12 (Previously Presented): The wireless end-user device of claim 10, wherein the processor is further configured to:

associate the second set of device application instances as being personal to the user.

Claim 13 (Previously Presented): The wireless end-user device of claim 8, wherein the first secure tunnel forms a portion of a virtual private network, VPN.

REMARKS

The *Advisory* Action, dated September 4, 2024 (hereinafter "Advisory Action"), maintained the rejections of claims 2-13 asserted in the *Final* Office Action, dated July 18, 2024 (hereinafter "Office Action"). By the present response, Applicant amends independent claims 1 and 8. Thus, after the present amendment and response, claims 2-13 remain pending in the present application. Applicant respectfully requests reconsideration and allowance of claims 2-13 in view of the following remarks.

A. 35 U.S.C. § 102(b)

The Office Action rejected claims 2-13, under 35 U.S.C. § 102(b), as being anticipated by Wright (U.S. Patent No. 8,020,192) ("Wright"). The Advisory Action repeated the same reasonings asserted in the Office Action.

The Office Action asserted that Wright discloses:

> based on the first access policy information indicative of the execution environment policy:
>
> > allowing a first set of device application instances to run only in a secure application environment on the wireless end-user device **(The client side system embodiment comprises a policy engine 832 operating in application space having a communication interface to management tools 816 of the operating system, See Col. 34, Lines 17 - 30)**. (See page 3 of the Office Action) (emphasis original.)

Applicant respectfully disagrees. Applicant respectfully submits that Wright, at col. 34, lines 17-30, provides:

> The client side system embodiment comprises a policy engine 832 operating in application space having a communication interface to management tools 816 of the operating system, a communication interface to a file filter 824 operating in the kernel space that controls access to the file system 826, a communication interface to

> a user interface module 802, a communication interface with the layered service provider (LSP) 814, and also having a communication interface to a packet filter engine 818 operating within a driver 834. In this example, the driver 834 is an NDIS intermediate driver 834 operating within the kernel of the operating system of the mobile device. The packet filter engine 818 has a communication interface with the layered service provider (LSP) 814 operating in application space.

As seen above, Wright discloses that "client side system embodiment comprises a *policy engine 832* operating in application space having a communication interface to management tools 816 of the operating system, a *communication interface* to a file filter 824 operating in the kernel space that controls access to the file filter 824 operating in the kernel space" and "a *communication interface* to a packet filter engine 818 … operating within the kernel of the operating system of the mobile device." (See id.) As such, Wright merely discloses that file filter 824 and packet filter engine 818 are operating in the kernel space, and that there is a communication interface between policy engine 832 and each of file filter 824 and packet filter engine 818.

However, Wright fails to disclose that *based on* policy engine 832, file filter 824 is *required* to operate in the kernel space and to not operate outside of the kernel space, or that *based on* policy engine 832, packet filter engine 818 is *required* to operate within the kernel and to not operate outside of the kernel space. All Wright discloses is that policy engine 832 has a communication interface with each of file filter 824 and packet filter engine 818. There is no disclosure that policy engine 832 requires, through the respective communication interface, either file filter 824 or packet filter engine 818 to operate in the kernel space and to not operate outside of the kernel space.

Therefore, Wright does not disclose "***based on*** the first access policy information indicative of the execution environment policy: ***requiring*** *a first set of device application*

instances ***to run in a secure application environment*** on the wireless end-user device, and ***to not run outside of the secure application environment***," as required by independent claims 2 and 8.

Accordingly, Applicant respectfully submits that independent claims 2 and 8 should be allowed. As such, claims 3-7 depending from independent claim 2, and claims 9-13 depending from independent claim 8, should also be allowed.

B. Conclusion

Based on the foregoing reasons, Applicant respectfully requests allowance of claims 2-13 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/
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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.

September 5, 2024
Date

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

PTO/SB/06 (09-11)
Approved for use through 1/31/2014. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875	Application or Docket Number 17/567,594	Filing Date 01/03/2022	☐ 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)		(Column 2)	(Column 3)			
AMENDMENT	09/05/2024	CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA		RATE ($)	ADDITIONAL FEE ($)
	Total (37 CFR 1.16(i))	* 12	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)		(Column 2)	(Column 3)			
AMENDMENT		CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA		RATE ($)	ADDITIONAL FEE ($)
	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 Assistant
** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".	/TARA J WITCHER/
*** 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.**

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

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Alexandria, Virginia 22313-1450
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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
17/567,594	01/03/2022	Gregory G. Raleigh	RALEP037D1C1C1C1C1	1081

106963 7590 09/04/2024

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

EXAMINER	
NAOREEN, NAZIA	

ART UNIT	PAPER NUMBER
2458	

NOTIFICATION DATE	DELIVERY MODE
09/04/2024	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

Advisory Action Before the Filing of an Appeal Brief	**Application No.** 17/567,594	**Applicant(s)** Raleigh et al.	
	Examiner NAZIA NAOREEN	**Art Unit** 2458	**AIA (FITF) Status** No

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

THE REPLY FILED 06 August 2024 FAILS TO PLACE THIS APPLICATION IN CONDITION FOR ALLOWANCE.

NO NOTICE OF APPEAL FILED

1. ☑ The reply was filed after a final rejection. No Notice of Appeal has been filed. To avoid abandonment of this application, applicant must timely file one of the following replies: (1) an amendment, affidavit, or other evidence, which places the application in condition for allowance; (2) a Notice of Appeal (with appeal fee) in compliance with 37 CFR 41.31; or (3) a Request for Continued Examination (RCE) in compliance with 37 CFR 1.114 if this is a utility or plant application. Note that RCEs are not permitted in design applications. The reply must be filed within one of the following time periods:
   a) ☐ The period for reply expires ____ months from the mailing date of the final rejection.
   b) ☑ The period for reply expires on: (1) the mailing date of this Advisory Action; or (2) the date set forth in the final rejection, whichever is later. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of the final rejection.
   c) ☐ A prior Advisory Action was mailed more than 3 months after the mailing date of the final rejection in response to a first after-final reply filed within 2 months of the mailing date of the final rejection.The current period for reply expires ____ months from the mailing date of *the prior Advisory Action* or SIX MONTHS from the mailing date of the final rejection, whichever is earlier.
   Examiner Note: If box 1 is checked, check either box (a), (b) or (c). ONLY CHECK BOX (b) WHEN THIS ADVISORY ACTION IS THE FIRST RESPONSE TO APPLICANTS FIRST AFTER-FINAL REPLY WHICH WAS FILED WITHIN TWO MONTHS OF THE FINAL REJECTION. ONLY CHECK BOX (c) IN THE LIMITED SITUATION SET FORTH UNDER BOX (c). See MPEP 706.07(f).

Extensions of time may be obtained under 37 CFR 1.136(a). The date on which the petition under 37 CFR 1.136(a) and the appropriate extension fee have been filed is the date for purposes of determining the period of extension and the corresponding amount of the fee. The appropriate extension fee under 37 CFR 1.17(a) is calculated from: (1) the expiration date of the shortened statutory period for reply originally set in the final Office action; or (2) as set forth in (b) or (c) above, if checked. Any reply received by the Office later than three months after the mailing date of the final rejection, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

NOTICE OF APPEAL

2. ☐ The Notice of Appeal was filed on _____. A brief in compliance with 37 CFR 41.37 must be filed within two months of the date of filing the Notice of Appeal (37 CFR 41.37(a)), or any extension thereof (37 CFR 41.37(e)), to avoid dismissal of the appeal. Since a Notice of Appeal has been filed, any reply must be filed within the time period set forth in 37CFR 41.37(a).

AMENDMENTS

3. ☐ The proposed amendments filed after a final rejection, but prior to the date of filing a brief, will not be entered because
   a) ☐ They raise new issues that would require further consideration and/or search (see NOTE below);
   b) ☐ They raise the issue of new matter (see NOTE below);
   c) ☐ They are not deemed to place the application in better form for appeal by materially reducing or simplifying the issues for appeal; and/or
   d) ☐ They present additional claims without canceling a corresponding number of finally rejected claims.
   NOTE: _____ (See 37 CFR 1.116 and 41.33(a)).
4. ☐ The amendments are not in compliance with 37 CFR 1.121. See attached Notice of Non-Compliant Amendment (PTOL-324).
5. ☐ Applicant's reply has overcome the following rejection(s): _____
6. ☐ Newly proposed or amended claim(s) _____ would be allowable if submitted in a separate, timely filed amendment canceling the non-allowable claim(s).
7. ☑ For purposes of appeal, the proposed amendment(s):(a) ☐ will not be entered; or (b) ☑ will be entered and an explanation of how the new or amended claims would be rejected is provided below or appended.

AFFIDAVIT OR OTHER EVIDENCE

8. ☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on _____
9. ☐ The affidavit or other evidence filed after final action, but before or on the date of filing a Notice of Appeal will not be entered because applicant failed to provide a showing of good and sufficient reasons why the affidavit or other evidence is necessary and was not earlier presented. See 37 CFR 1.116(e).
10. ☐ The affidavit or other evidence filed after the date of filing the Notice of Appeal, but prior to the date of filing a brief, will not be entered because the affidavit or other evidence failed to overcome all rejections under appeal and/or appellant fails to provide a showing of good and sufficient reasons why it is necessary and was not earlier presented. See 37 CFR 41.33(d)(1).
11. ☐ The affidavit or other evidence is entered. An explanation of the status of the claims after entry is below or attached.

REQUEST FOR RECONSIDERATION/OTHER

12. ☑ The request for reconsideration has been considered but does NOT place the application in condition for allowance because: See Continuation Sheet.
13. ☑ Note the attached Information *Disclosure Statement*(s). (PTO/SB/08) Paper No(s). 08/16/24, 08/20/24, 08/21/24
14. ☐ Other: _____.

STATUS OF CLAIMS

15. The status of the claim(s) is (or will be) as follows:
    Claim(s) allowed:_____.
    Claim(s) objected to:_____.
    Claim(s) rejected:2-13.
    Claim(s) withdrawn from consideration:_____.

/NAZIA NAOREEN/ Primary Examiner, Art Unit 2458	

Continuation of REQUEST FOR RECONSIDERATION/OTHER 12. The request for reconsideration has been considered but does NOT place the application in condition for allowance because:

With respect to independent claim 2, Applicant argues that Wright does not disclose "based on the first access policy information indicative of the execution environment policy: allowing a first set of device application instances to run only in a secure application environment on the wireless end-user device." Examiner responds that Wright discloses a first access policy information indicative of an execution environment policy by teaching that a policy engine executes in a network environment by implementing rules based on network parameters to provide application awareness information (Col. 34, Lines 49 - 67). Based on the policy information, Wright discloses allowing a first set of device application instances to run only in a secure application environment on the wireless end-user device by teaching that application instances 830 run on an application space where the policy engine 832 creates a secure application environment on a client device which can be a wireless end-user system (Fig. 8 / Col. 34, Lines 17 - 30). For example, the policy engine provides a list of applications that can access or cannot access the network in accordance with the security policy (Col. 34, Lines 49 - 67). Therefore, Wright does disclose the claimed limitation.

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	17567594
	Filing Date	2022-01-03
	First Named Inventor	RALEIGH, GREGORY
	Art Unit	2458
	Examiner Name	Naoreen, Nazia
	Attorney Docket Number	RALEP037D1C1C1C1C1

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	5,987,611		1999-11-16	Freund; Gregor	
	2	8,028,060		2011-09-27	Wyld; Jeremy et al.	
	3	8,909,211		2014-12-09	Huq; Rana et al.	
	4	8,381,127		2013-02-19	Singh; Mona et al.	
	5	6,898,654		2005-05-24	Senior; Jay et al.	
	6	8,886,261		2014-11-11	Aerrabotu; Naveen	
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

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /N.N/

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	17567594
	Filing Date	2022-01-03
	First Named Inventor	RALEIGH, GREGORY
	Art Unit	2458
	Examiner Name	Naoreen, Nazia
	Attorney Docket Number	RALEP037D1C1C1C1C1

	1	20060039354		2006-02-23	Rao; Goutham P. et al.	
	2	20090217065		2009-08-27	Araujo, JR.; Nelson S.	
	3	20090207817		2009-08-20	Montemurro; Michael et al.	
	4	20070038763		2007-02-15	Oestvall; Magnus Evert	
	5	20090093247		2009-04-09	Srinivasan; Malayala R.	
	6	20080080458		2008-04-03	COLE; TERRY L.	
	7	20080057894		2008-03-06	Aleksic; Milivoje et al.	
	8	20090119773		2009-05-07	D'AMORE; Tianyu Li et al.	
	9	20090318124		2009-12-24	Haughn; Erick John	

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]

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /N.N/

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	17567594
	Filing Date	2022-01-03
	First Named Inventor	RALEIGH, GREGORY
	Art Unit	2458
	Examiner Name	Naoreen, Nazia
	Attorney Docket Number	RALEP037D1C1C1C1C1

	1	2008/113986	WO		2008-09-25	British Telecommunications Public Limited Company		☐
	2	1484871	EP		2004-08-12	fg microtec GmbH		☐

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.	T[5]
	1	Joint Claim Construction and Prehearing Statement, Headwater Research LLC v. Motorola Mobility LLC, et al., No. 4:23-cv-04496-JST (N.D. Cal. June 11, 2024) (ECF No. 64).	☐
	2	IPR2024-01180 PETITION FOR INTER PARTES REVIEW, filed August 12, 2024	☐

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

EXAMINER SIGNATURE

Examiner Signature	/NAZIA NAOREEN/	Date Considered	08/29/2024

*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.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /N.N/

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	17567594
	Filing Date	2022-01-03
	First Named Inventor	RALEIGH, GREGORY
	Art Unit	2458
	Examiner Name	Naoreen, Nazia
	Attorney Docket Number	RALEP037D1C1C1C1C1

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)	2024-08-20
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.**

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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.

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

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (**Not for submission under 37 CFR 1.99)**		
	Application Number	17567594
	Filing Date	2022-01-03
	First Named Inventor	RALEIGH, GREGORY
	Art Unit	2458
	Examiner Name	Naoreen, Nazia
	Attorney Docket Number	RALEP037D1C1C1C1C1

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	5,987,611		1999-11-16	Freund; Gregor	
	2	8,028,060		2011-09-27	Wyld; Jeremy et al.	
	3	8,909,211		2014-12-09	Huq; Rana et al.	
	4	8,381,127		2013-02-19	Singh; Mona et al.	
	5	6,898,654		2005-05-24	Senior; Jay et al.	
	6	8,886,261		2014-11-11	Aerrabotu; Naveen	
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	1	20060039354		2006-02-23	Rao; Goutham P. et al.	
	2	20090217065		2009-08-27	Araujo, JR.; Nelson S.	
	3	20090207817		2009-08-20	Montemurro; Michael et al.	
	4	20070038763		2007-02-15	Oestvall; Magnus Evert	
	5	20090093247		2009-04-09	Srinivasan; Malayala R.	
	6	20080080458		2008-04-03	COLE; TERRY L.	
	7	20080057894		2008-03-06	Aleksic; Milivoje et al.	
	8	20090119773		2009-05-07	D'AMORE; Tianyu Li et al.	
	9	20090318124		2009-12-24	Haughn; Erick John	

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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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	1	2008/113986	WO		2008-09-25	British Telecommunications Public Limited Company		☐
	2	1484871	EP		2004-08-12	fg microtec GmbH		☐

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NON-PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T[5]
	1	Joint Claim Construction and Prehearing Statement, Headwater Research LLC v. Motorola Mobility LLC, et al., No. 4:23-cv-04496-JST (N.D. Cal. June 11, 2024) (ECF No. 64).	☐
	2	IPR2024-01181 PETITION FOR INTER PARTES REVIEW, filed August 12, 2024	☐

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Examiner Signature	/NAZIA NAOREEN/	Date Considered	08/29/2024

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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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Signature	/Farshad Farjami/	Date (YYYY-MM-DD)	2024-08-21
Name/Print	Farshad Farjami	Registration Number	41014

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

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First Named Inventor	RALEIGH, GREGORY
Art Unit	2458
Examiner Name	Naoreen, Nazia
Attorney Docket Number	RALEP037D1C1C1C1C1

U.S.PATENTS Remove

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	5987611		1999-11-16	Freund; Gregor	
	2	8381127		2013-02-19	Singh; Mona et al.	
	3	8413172		2013-04-02	Sng; Swee Huat	
	4	8407345		2013-03-26	Lim; Keng	
	5	8886261		2014-11-11	Aerrabotu; Naveen	

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	1	20040224668		2004-11-11	Shell, Scott R. et al.	

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	First Named Inventor	RALEIGH, GREGORY
	Art Unit	2458
	Examiner Name	Naoreen, Nazia
	Attorney Docket Number	RALEP037D1C1C1C1C1

	2	20080080458		2008-04-03	COLE; TERRY L.	
	3	20090207817		2009-08-20	Montemurro; Michael et al.	
	4	20090217065		2009-08-27	Araujo, JR.; Nelson S.	
	5	20060039354		2006-02-23	Rao; Goutham P. et al.	
	6	20070038763		2007-02-15	Oestvall; Magnus Evert	
	7	20100115048		2010-05-06	Scahill; Francis J.	
	8	20070173283		2007-07-26	Livet; Catherine M. et al.	
	9	20090019022		2009-01-15	Schallert; Gregory et al.	
	10	20090093247		2009-04-09	Srinivasan; Malayala R.	
	11	20080311897		2008-12-18	Segal; Niranjan N.	
	12	20090210537		2009-08-20	Irwin; James et al.	

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	1	03/100581	WO		2003-12-04	Dive-Reclus et al.		☐

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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]
	1	Flinn, Jason, et al. “The case for intentional networking,” Proceedings of the 10th Workshop on Mobile Computing Systems and Applications, 2009	☐
	2	Carter, Casey et al., “Contact networking: a localized mobility system,” Proceedings of the 1st International Conference on Mobile systems, Applications and Services, 2003	☐
	3	David Flanagan, O’Reilly & Associates, Inc., “Java in a Nutshell,” 1996, ISBN: I-56592-183-6	☐
	4	Richard Stevens et al., “UNIX Network Programming Volume 1, Third Edition: The Sockets Networking API,” 2004, ISBN: 0-13-141155-1	☐
	5	Buxton, B., “Integrating the Periphery and Context: A New Model of Telematics,” in Proceedings of Graphics Interface ’95, in GI’95. 1995	☐
	6	Hinckley et al., “Foreground and background interaction with sensor-enhanced mobile devices,” ACM Trans. Comput. Hum. Interact., vol. 12, no. 1, pp. 31–52, Mar. 2005	☐

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	7	Korhonen, "Host Identity Protocol (HIP) Implementation in the Symbian Environment," Master of Science Thesis, Tampere University of Technology (12/10/2007)	☐
	8	Welsh, "Incorporating Memory Management into User-Level Network Interfaces." IEEE Micro, 18(2), 1998, 10 pages	☐
	9	S. Lee & N. Golmie, "Power-Efficient Interface Selection Scheme using Paging of WWAN for WLAN in Heterogeneous Wireless Networks," 2006 IEEE International Conference on Communications (Istanbul, 2006), 1742–1747	☐
	10	M. Stemm et al., "A network measurement architecture for adaptive applications," Proceedings of the 2000 IEEE INFOCOM Conference on Computer Communications. Nineteenth Annual Joint Conference of the IEEE Computer and Communications Societies (Cat. No.00CH37064), Tel Aviv, Israel, 2000, 285-294	☐
	11	K. Ravindran & V. Bansal, "Delay compensation protocols for synchronization of multimedia data streams," IEEE Transactions on Knowledge and Data Engineering, Vol. 5, No. 4, 574-589, Aug. 1993	☐
	12	D. C. Verma, "Simplifying network administration using policy-based management." IEEE Network, Vol. 16, No. 2, 20-26, Mar. 2002	☐
	13	G. Nychis & D. R. Licata, "The impact of background network traffic on foreground network traffic." Proceedings of the IEEE Global Telecommunications Conference (GLOBECOM), 2001	☐
	14	I. Pronchev. "Packet Capturing Using the Linux Netfilter Framework." Technical Report, Technische Universität München, 1-31, July 2006	☐
	15	A.-J. Moerdijk and L. Klostermann, "Opening the networks with Parlay/OSA: standards and aspects behind the APIs." IEEE Network, vol. 17, no. 3, pp. 58-64, May-June 2003	☐
	16	J. B. D. Joshi, E. Bertino, U. Latif and A. Ghafoor, "A generalized temporal role-based access control model." IEEE Transactions on Knowledge and Data Engineering, vol. 17, no. 1, pp. 4-23, Jan. 2005	☐
	17	Lymberopoulos et al., "An Adaptive Policy-Based Framework for Network Services Management," Journal of Network and Systems Management, Vol. 11, No. 3, September 2003	☐

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	18	Petition for Inter Partes Review of U.S. Pat. No. 9,143,976 Pursuant To 35 U.S.C. §§ 311–319, 37 C.F.R. § 42 in Samsung Electronics Co Ltd v. Headwater Research LLC, IPR2023-01253, Paper 2 (PTAB August 11, 2023)	☐
	19	Decision Denying Institution of Inter Partes Review in Samsung Electronics Co Ltd v. Headwater Research LLC, IPR2023-01253, Paper 9 (PTAB March 21, 2024)	☐
	20	File History of U.S. Patent No. 9,143,976	☐
	21	REQUEST FOR EX PARTE REEXAMINATION OF U.S. PATENT NO. 9,143,976, filed August 5, 2024	☐

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EXAMINER SIGNATURE

Examiner Signature	/NAZIA NAOREEN/	Date Considered	08/29/2024

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

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

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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.

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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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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: **Raleigh et al.** Application Serial No.: **17/567,594** Filed: **1/3/2022** Title: **Enterprise Access Control and Accounting Allocation for Access Networks**	Group Art Unit: 2458 Examiner: Naoreen, Nazia

RESPONSE TO *FINAL* OFFICE ACTION

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

Dear Sir/Madam:

This is in response to the *Final* Office Action, dated July 18, 2024, in the above-referenced patent application. Please enter and consider the following 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.

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	17567594
	Filing Date	2022-01-03
	First Named Inventor	RALEIGH, GREGORY
	Art Unit	2458
	Examiner Name	Naoreen, Nazia
	Attorney Docket Number	RALEP037D1C1C1C1C1

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	5,987,611		1999-11-16	Freund; Gregor	
	2	8,028,060		2011-09-27	Wyld; Jeremy et al.	
	3	8,909,211		2014-12-09	Huq; Rana et al.	
	4	8,381,127		2013-02-19	Singh; Mona et al.	
	5	6,898,654		2005-05-24	Senior; Jay et al.	
	6	8,886,261		2014-11-11	Aerrabotu; Naveen	
If you wish to add additional U.S. Patent citation information please click the Add button.						

U.S.PATENT APPLICATION PUBLICATIONS						
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	1	20060039354		2006-02-23	Rao; Goutham P. et al.	
	2	20090217065		2009-08-27	Araujo, JR.; Nelson S.	
	3	20090207817		2009-08-20	Montemurro; Michael et al.	
	4	20070038763		2007-02-15	Oestvall; Magnus Evert	
	5	20090093247		2009-04-09	Srinivasan; Malayala R.	
	6	20080080458		2008-04-03	COLE; TERRY L.	
	7	20080057894		2008-03-06	Aleksic; Milivoje et al.	
	8	20090119773		2009-05-07	D'AMORE; Tianyu Li et al.	
	9	20090318124		2009-12-24	Haughn; Erick John	

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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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	1	2008/113986	WO		2008-09-25	British Telecommunications Public Limited Company		☐
	2	1484871	EP		2004-08-12	fg microtec GmbH		☐

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NON-PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T[5]
	1	Joint Claim Construction and Prehearing Statement, Headwater Research LLC v. Motorola Mobility LLC, et al., No. 4:23-cv-04496-JST (N.D. Cal. June 11, 2024) (ECF No. 64).	☐
	2	IPR2024-01181 PETITION FOR INTER PARTES REVIEW, filed August 12, 2024	☐

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

EXAMINER SIGNATURE

Examiner Signature		Date Considered	

*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.

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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).

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)	2024-08-21
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.**

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UNITED STATES
PATENT AND TRADEMARK OFFICE

P.O. Box 1450
Alexandria, VA 22313 - 1450
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ELECTRONIC ACKNOWLEDGEMENT RECEIPT

APPLICATION #	RECEIPT DATE / TIME	ATTORNEY DOCKET #
17/567,594	**08/21/2024 05:24:15 PM Z ET**	**RALEP037D1C1C1C1C1**

Title of Invention

Enterprise Access Control and Accounting Allocation for Access Networks

Application Information

APPLICATION TYPE	Utility - Nonprovisional Application under 35 USC 111(a)	PATENT #	-
CONFIRMATION #	1081	FILED BY	Evan Gunderman
PATENT CENTER #	66877052	FILING DATE	01/03/2022
CUSTOMER #	106963	FIRST NAMED INVENTOR	Gregory G. Raleigh
CORRESPONDENCE ADDRESS	-	AUTHORIZED BY	Michael Farjami

Documents

TOTAL DOCUMENTS: 5

DOCUMENT	PAGES	DESCRIPTION	SIZE (KB)
RALEP037D1C1C1C1C1_IDS_Aug_21_24.pdf	5	Information Disclosure Statement (IDS) Form (SB08)	1315 KB
Warning: This is not a USPTO supplied IDS fillable form. Data in the form cannot be automatically loaded to other USPTO systems.			
WO2008113986A2.pdf	70	Foreign Reference	3164 KB
EP1484871A1.pdf	15	Foreign Reference	1601 KB
Motorola-Lenovo Exhibit 1023 - Joint Claim Construction and Prehearing Statement.pdf	6	Non Patent Literature	821 KB
Motorola-Lenovo Exhibit 1003 - Bims Declaration.pdf	101	Non Patent Literature	2253 KB

Digest

DOCUMENT	MESSAGE DIGEST(SHA-512)
RALEP037D1C1C1C1C1_IDS_Aug_21_24.pdf	F252EA9AA5EDB20516B1BD3FB4002C9324452ADE30B4A5AE53B18444BA3E14E19BAC3B221F25428D6AC39B0CCDDD6A4C015BEEA3EA521B92BB0A6F00776F7BBB
WO2008113986A2.pdf	0902DD60910D6024D3DA5C72FAF2DC98077A5B9662257CFA527B1107B6C6FD5E7BAA25E0D3CCB543A84285F023CC49A9408973DF5CC2EFD63292E1862AFF135F
EP1484871A1.pdf	877B0081659513E760A5E42C4DE801E84CE0AB2729016C835AB81087ACEDE88146AFB4CCACA7D1585101715C61A3A6D7C3279F7F20A0D68231A6DA8F57C5A7A6
Motorola-Lenovo Exhibit 1023 - Joint Claim Construction and Prehearing Statement.pdf	63A2856C50FD69417B06D6ED0C36B6424E773138BF2D36C8F790A3D96FF86521DD21F3F51B109EB46A69721A1024770E57E7744D5F6799395728819AC4CADCBC
Motorola-Lenovo Exhibit 1003 - Bims Declaration.pdf	347068DFFC222013B6D525FFE1941A11BDE6F2CCF683E844B1DD82ADCD1E5D6E204B29F92A5FF953054A421826BDB7AD2CC0261D3C6487AC87558868C09939C3

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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ELECTRONIC PAYMENT RECEIPT

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CORRESPONDENCE ADDRESS	-	FIRST NAMED INVENTOR	Gregory G. Raleigh

Payment Information

PAYMENT METHOD	PAYMENT TRANSACTION ID	PAYMENT AUTHORIZED BY
CARD / 5006	**E20248KH25285329**	**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($)	QUANTITY	ITEM TOTAL($)
2806	SUBMISSION OF AN INFORMATION DISCLOSURE STATEMENT	104.00	1	104.00
			TOTAL AMOUNT:	**$104.00**

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	6	20080080458		2008-04-03	COLE; TERRY L.	
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NON-PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T[5]
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☐ 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)	2024-08-20
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

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

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ELECTRONIC ACKNOWLEDGEMENT RECEIPT

APPLICATION #	RECEIPT DATE / TIME	ATTORNEY DOCKET #
17/567,594	**08/20/2024 05:23:36 PM Z ET**	**RALEP037D1C1C1C1C1**

Title of Invention

Enterprise Access Control and Accounting Allocation for Access Networks

Application Information

APPLICATION TYPE	Utility - Nonprovisional Application under 35 USC 111(a)	PATENT #	-
CONFIRMATION #	1081	FILED BY	Evan Gunderman
PATENT CENTER #	66859813	FILING DATE	01/03/2022
CUSTOMER #	106963	FIRST NAMED INVENTOR	Gregory G. Raleigh
CORRESPONDENCE ADDRESS	-	AUTHORIZED BY	Michael Farjami

Documents

TOTAL DOCUMENTS: 5

DOCUMENT	PAGES	DESCRIPTION	SIZE (KB)
RALEP037D1C1C1C1C1_IDS_Aug_20_24.pdf	5	Information Disclosure Statement (IDS) Form (SB08)	1315 KB
Warning: This is not a USPTO supplied IDS fillable form. Data in the form cannot be automatically loaded to other USPTO systems.			
WO2008113986A2.pdf	70	Foreign Reference	3164 KB
EP1484871A1.pdf	15	Foreign Reference	1601 KB
Motorola-Lenovo Exhibit 1023 - Joint Claim Construction and Prehearing Statement.pdf	6	Non Patent Literature	821 KB
Motorola-Lenovo Exhibit 1003 - Bims Declaration.pdf	95	Non Patent Literature	1753 KB

Digest

DOCUMENT	MESSAGE DIGEST(SHA-512)
RALEP037D1C1C1C1C1_IDS_Aug_20_24.pdf	E4E925E02131AA1C48AD2D46805175ACDC0F87A1EFF191D177A3E65A2943BE547F5F0AB48225090634A3F1B616414945716EC4C08B9B98B3E901049D2EF9729D
WO2008113986A2.pdf	0902DD60910D6024D3DA5C72FAF2DC98077A5B9662257CFA527B1107B6C6FD5E7BAA25E0D3CCB543A84285F023CC49A9408973DF5CC2EFD63292E1862AFF135F
EP1484871A1.pdf	877B0081659513E760A5E42C4DE801E84CE0AB2729016C835AB81087ACEDE88146AFB4CCACA7D1585101715C61A3A6D7C3279F7F20A0D68231A6DA8F57C5A7A6
Motorola-Lenovo Exhibit 1023 - Joint Claim Construction and Prehearing Statement.pdf	63A2856C50FD69417B06D6ED0C36B6424E773138BF2D36C8F790A3D96FF86521DD21F3F51B109EB46A69721A1024770E57E7744D5F6799395728819AC4CADCBC
Motorola-Lenovo Exhibit 1003 - Bims Declaration.pdf	C7D8288C409E9EE7F2ED748E8EF2FB8DEE703D2CBAE75CA4DC1D232DDABE7D27314F232B2E4D190E156C0AB5FCA4EEE9157BB9CE4B3C7FC7015AC2851C9D65E4

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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ELECTRONIC PAYMENT RECEIPT

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CORRESPONDENCE ADDRESS	-	FIRST NAMED INVENTOR	Gregory G. Raleigh

Payment Information

PAYMENT METHOD	PAYMENT TRANSACTION ID	PAYMENT AUTHORIZED BY
CARD / 5006	**E20248JH24416179**	**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)**

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2806	SUBMISSION OF AN INFORMATION DISCLOSURE STATEMENT	104.00	1	104.00
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PTO/SB/08a (01-22)
Approved for use through 05/31/2024. OMB 0651-0031
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	17567594
	Filing Date	2022-01-03
	First Named Inventor	RALEIGH, GREGORY
	Art Unit	2458
	Examiner Name	Naoreen, Nazia
	Attorney Docket Number	RALEP037D1C1C1C1C1

U.S.PATENTS Remove

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	5987611		1999-11-16	Freund; Gregor	
	2	8381127		2013-02-19	Singh; Mona et al.	
	3	8413172		2013-04-02	Sng; Swee Huat	
	4	8407345		2013-03-26	Lim; Keng	
	5	8886261		2014-11-11	Aerrabotu; Naveen	

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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
	1	20040224668		2004-11-11	Shell, Scott R. et al.	

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	Attorney Docket Number	RALEP037D1C1C1C1C1

	2	20080080458		2008-04-03	COLE; TERRY L.	
	3	20090207817		2009-08-20	Montemurro; Michael et al.	
	4	20090217065		2009-08-27	Araujo, JR.; Nelson S.	
	5	20060039354		2006-02-23	Rao; Goutham P. et al.	
	6	20070038763		2007-02-15	Oestvall; Magnus Evert	
	7	20100115048		2010-05-06	Scahill; Francis J.	
	8	20070173283		2007-07-26	Livet; Catherine M. et al.	
	9	20090019022		2009-01-15	Schallert; Gregory et al.	
	10	20090093247		2009-04-09	Srinivasan; Malayala R.	
	11	20080311897		2008-12-18	Segal; Niranjan N.	
	12	20090210537		2009-08-20	Irwin; James et al.	

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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]
	1	03/100581	WO		2003-12-04	Dive-Reclus et al.		☐

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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]
	1	Flinn, Jason, et al. “The case for intentional networking,” Proceedings of the 10th Workshop on Mobile Computing Systems and Applications, 2009	☐
	2	Carter, Casey et al., “Contact networking: a localized mobility system,” Proceedings of the 1st International Conference on Mobile systems, Applications and Services, 2003	☐
	3	David Flanagan, O’Reilly & Associates, Inc., “Java in a Nutshell,” 1996, ISBN: I-56592-183-6	☐
	4	Richard Stevens et al., “UNIX Network Programming Volume 1, Third Edition: The Sockets Networking API,” 2004, ISBN: 0-13-141155-1	☐
	5	Buxton, B., “Integrating the Periphery and Context: A New Model of Telematics,” in Proceedings of Graphics Interface ’95, in GI’95. 1995	☐
	6	Hinckley et al., “Foreground and background interaction with sensor-enhanced mobile devices,” ACM Trans. Comput. Hum. Interact., vol. 12, no. 1, pp. 31–52, Mar. 2005	☐

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	7	Korhonen, "Host Identity Protocol (HIP) Implementation in the Symbian Environment," Master of Science Thesis, Tampere University of Technology (12/10/2007)	☐
	8	Welsh, "Incorporating Memory Management into User-Level Network Interfaces." IEEE Micro, 18(2), 1998, 10 pages	☐
	9	S. Lee & N. Golmie, "Power-Efficient Interface Selection Scheme using Paging of WWAN for WLAN in Heterogeneous Wireless Networks," 2006 IEEE International Conference on Communications (Istanbul, 2006), 1742–1747	☐
	10	M. Stemm et al., "A network measurement architecture for adaptive applications," Proceedings of the 2000 IEEE INFOCOM Conference on Computer Communications. Nineteenth Annual Joint Conference of the IEEE Computer and Communications Societies (Cat. No.00CH37064), Tel Aviv, Israel, 2000, 285-294	☐
	11	K. Ravindran & V. Bansal, "Delay compensation protocols for synchronization of multimedia data streams," IEEE Transactions on Knowledge and Data Engineering, Vol. 5, No. 4, 574-589, Aug. 1993	☐
	12	D. C. Verma, "Simplifying network administration using policy-based management." IEEE Network, Vol. 16, No. 2, 20-26, Mar. 2002	☐
	13	G. Nychis & D. R. Licata, "The impact of background network traffic on foreground network traffic." Proceedings of the IEEE Global Telecommunications Conference (GLOBECOM), 2001	☐
	14	I. Pronchev. "Packet Capturing Using the Linux Netfilter Framework." Technical Report, Technische Universität München, 1-31, July 2006	☐
	15	A.-J. Moerdijk and L. Klostermann, "Opening the networks with Parlay/OSA: standards and aspects behind the APIs." IEEE Network, vol. 17, no. 3, pp. 58-64, May-June 2003	☐
	16	J. B. D. Joshi, E. Bertino, U. Latif and A. Ghafoor, "A generalized temporal role-based access control model." IEEE Transactions on Knowledge and Data Engineering, vol. 17, no. 1, pp. 4-23, Jan. 2005	☐
	17	Lymberopoulos et al., "An Adaptive Policy-Based Framework for Network Services Management," Journal of Network and Systems Management, Vol. 11, No. 3, September 2003	☐

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	18	Petition for Inter Partes Review of U.S. Pat. No. 9,143,976 Pursuant To 35 U.S.C. §§ 311–319, 37 C.F.R. § 42 in Samsung Electronics Co Ltd v. Headwater Research LLC, IPR2023-01253, Paper 2 (PTAB August 11, 2023)	☐
	19	Decision Denying Institution of Inter Partes Review in Samsung Electronics Co Ltd v. Headwater Research LLC, IPR2023-01253, Paper 9 (PTAB March 21, 2024)	☐
	20	File History of U.S. Patent No. 9,143,976	☐
	21	REQUEST FOR EX PARTE REEXAMINATION OF U.S. PATENT NO. 9,143,976, filed August 5, 2024	☐

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EXAMINER SIGNATURE

Examiner Signature		Date Considered	

*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.

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CERTIFICATION STATEMENT

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Name/Print	Farshad Farjami	Registration Number	41014

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PATENT CENTER #	66821338	FILING DATE	01/03/2022
CUSTOMER #	106963	FIRST NAMED INVENTOR	Gregory G. Raleigh
CORRESPONDENCE ADDRESS	-	AUTHORIZED BY	Michael Farjami

Documents

TOTAL DOCUMENTS: 22

DOCUMENT	PAGES	DESCRIPTION	SIZE (KB)
RALEP037D1C1C1C1C1_IDS_Aug_16_24.pdf	7	Information Disclosure Statement (IDS) Form (SB08)	1255 KB
AppendixY.pdf	25	Foreign Reference	2538 KB
AppendixO.pdf	7	Non Patent Literature	581 KB
AppendixP.pdf	17	Non Patent Literature	24462 KB
AppendixS.pdf	5	Non Patent Literature	371 KB
AppendixT.pdf	15	Non Patent Literature	5774 KB
AppendixW.pdf	9	Non Patent Literature	6670 KB
AppendixX.pdf	23	Non Patent Literature	948 KB
AppendixAA.pdf	71	Non Patent Literature	1595 KB

AppendixAC.pdf	11	Non Patent Literature	342 KB
AppendixAD.pdf	7	Non Patent Literature	431 KB
AppendixAE.pdf	11	Non Patent Literature	1949 KB
AppendixAF.pdf	17	Non Patent Literature	3545 KB
AppendixAG.pdf	8	Non Patent Literature	405 KB
AppendixAH.pdf	6	Non Patent Literature	148 KB
AppendixAIpdf.pdf	35	Non Patent Literature	1620 KB
AppendixAJ.pdf	8	Non Patent Literature	1344 KB
AppendixAK.pdf	21	Non Patent Literature	3186 KB
AppendixAL.pdf	28	Non Patent Literature	1907 KB
AppendixBA.pdf	92	Non Patent Literature	2741 KB
AppendixBB.pdf	18	Non Patent Literature	594 KB
RequestforExParteReexamination.pdf	212	Non Patent Literature	7671 KB

Digest

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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.

UNITED STATES
PATENT AND TRADEMARK OFFICE

P.O. Box 1450
Alexandria, VA 22313 - 1450
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ELECTRONIC PAYMENT RECEIPT

APPLICATION #	RECEIPT DATE / TIME	ATTORNEY DOCKET #
17/567,594	**08/16/2024 05:38:48 PM Z ET**	**RALEP037D1C1C1C1C1**

Title of Invention

Enterprise Access Control and Accounting Allocation for Access Networks

Application Information

APPLICATION TYPE	Utility - Nonprovisional Application under 35 USC 111(a)	PATENT #	-
CONFIRMATION #	1081	FILED BY	Evan Gunderman
PATENT CENTER #	66821338	AUTHORIZED BY	Michael Farjami
CUSTOMER #	106963	FILING DATE	01/03/2022
CORRESPONDENCE ADDRESS	-	FIRST NAMED INVENTOR	Gregory G. Raleigh

Payment Information

PAYMENT METHOD	PAYMENT TRANSACTION ID	PAYMENT AUTHORIZED BY
CARD / 5006	**E20248FH40108303**	**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($)	QUANTITY	ITEM TOTAL($)
2806	SUBMISSION OF AN INFORMATION DISCLOSURE STATEMENT	104.00	1	104.00
			TOTAL AMOUNT:	**$104.00**

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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

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ELECTRONIC ACKNOWLEDGEMENT RECEIPT

APPLICATION #	RECEIPT DATE / TIME	ATTORNEY DOCKET #
17/567,594	**08/06/2024 07:43:43 PM Z ET**	**RALEP037D1C1C1C1C1**

Title of Invention

Enterprise Access Control and Accounting Allocation for Access Networks

Application Information

APPLICATION TYPE	Utility - Nonprovisional Application under 35 USC 111(a)	PATENT #	-
CONFIRMATION #	1081	FILED BY	Evan Gunderman
PATENT CENTER #	66680547	FILING DATE	01/03/2022
CUSTOMER #	106963	FIRST NAMED INVENTOR	Gregory G. Raleigh
CORRESPONDENCE ADDRESS	-	AUTHORIZED BY	Michael Farjami

Documents

TOTAL DOCUMENTS: 2

DOCUMENT		PAGES	DESCRIPTION	SIZE (KB)
RALEP037D1C1C1C1C1_Resp_to_Final_OA_Aug_6_24.pdf		8	-	72 KB
RALEP037D1C1C1C1C1_Resp_to_Final_OA_Aug_6_24-TRAN.LET.pdf	(1-1)	1	Transmittal Letter	30 KB
RALEP037D1C1C1C1C1_Resp_to_Final_OA_Aug_6_24-A.NE.pdf	(2-8)	7	Response After Final Action	53 KB

Digest

DOCUMENT	MESSAGE DIGEST(SHA-512)

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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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ELECTRONIC TRANSMISSION COVER SHEET

Date: August 6, 2024

To: United States Patent and Trademark Office
Examiner: Naoreen, Nazia; Art Unit: 2458

Re: **Application Serial No.: 17/567,594**
Filing Date: 1/3/2022; First-Named Inventor: Raleigh
Attorney Docket No.: RALEP037D1C1C1C1C1

From: Farjami & Farjami LLP

Number of pages including the cover sheet: 8

Message:

Enclosed, please find the Response to Final Office Action, dated July 18, 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.

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.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: **Raleigh et al.** Application Serial No.: **17/567,594** Filed: **1/3/2022** Title: **Enterprise Access Control and Accounting Allocation for Access Networks**	Group Art Unit: 2458 Examiner: Naoreen, Nazia

RESPONSE TO *FINAL* OFFICE ACTION

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

Dear Sir/Madam:

This is in response to the *Final* Office Action, dated July 18, 2024, in the above-referenced patent application. Please enter and consider the following 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.

In the Claims:

Claim 1 (Cancelled)

Claim 2 (Previously Presented): A method of operating a wireless end-user device, the method comprising:

providing first access policy information indicative of an execution environment policy;

providing second access policy information indicative of a security policy;

based on the first access policy information indicative of the execution environment policy:

allowing a first set of device application instances to run only in a secure application environment on the wireless end-user device;

based on the second access policy information indicative of the security policy:

establishing a first secure tunnel to a network tunnel endpoint; and

directing all network data communications to and from the first set of device application instances, which are running only in the secure application environment, through the first secure tunnel.

Claim 3 (Previously Presented): The method of claim 2, wherein the security policy defines a first configuration indicating that a second set of device application instances are not allowed to use the first secure tunnel.

Claim 4 (Previously Presented): The method of claim 3, wherein the first set of device application instances are used on behalf of an enterprise and the second set of device application instances are personal to a user of the wireless end-user device.

Claim 5 (Previously Presented): The method of claim 4, further comprising:

associating the first set of device application instances with the enterprise.

Claim 6 (Previously Presented): The method of claim 4, further comprising:

associating the second set of device application instances as being personal to the user.

Claim 7 (Previously Presented): The method of claim 2, wherein the first secure tunnel forms a portion of a virtual private network, VPN.

Claim 8 (Previously Presented): A wireless end-user device comprising:

a processor configured to:

provide first access policy information indicative of an execution environment policy;

provide second access policy information indicative of a security policy;

based on the first access policy information indicative of the execution environment policy:

allow a first set of device application instances to run only in a secure application environment on the wireless end-user device;

based on the second access policy information indicative of the security policy:

establish a first secure tunnel to a network tunnel endpoint; and

direct all network data communications to and from the first set of device application instances, which are running only in the secure application environment, through the first secure tunnel.

Claim 9 (Previously Presented): The wireless end-user device of claim 8, wherein the security policy defines a first configuration indicating that a second set of device application instances are not allowed to use the first secure tunnel.

Claim 10 (Previously Presented): The wireless end-user device of claim 9, wherein the first set of device application instances are used on behalf of an enterprise and the second set of device application instances are personal to a user of the wireless end-user device.

Claim 11 (Previously Presented): The wireless end-user device of claim 10, wherein the processor is further configured to:

associate the first set of device application instances with the enterprise.

Claim 12 (Previously Presented): The wireless end-user device of claim 10, wherein the processor is further configured to:

associate the second set of device application instances as being personal to the user.

Claim 13 (Previously Presented): The wireless end-user device of claim 8, wherein the first secure tunnel forms a portion of a virtual private network, VPN.

REMARKS

The *Final* Office Action, dated July 18, 2024 ("Office Action"), rejected claims 2-13. No claims are amended. Thus, after the present response, claims 2-13 remain pending in the present application. Applicant respectfully requests allowance of claims 2-13 in view of the following remarks.

A. 35 U.S.C. § 102(b)

The Office Action rejected claims 2-13, under 35 U.S.C. § 102(b), as being anticipated by Wright (U.S. Patent No. 8,020,192) ("Wright").

The Office Action asserted that Wright discloses:

> based on the first access policy information indicative of the execution environment policy:
>
> > allowing a first set of device application instances to run only in a secure application environment on the wireless end-user device **(The client side system embodiment comprises a policy engine 832 operating in application space having a communication interface to management tools 816 of the operating system, See Col. 34, Lines 17 - 30)**. (See page 3 of the Office Action) (emphasis original.)

Applicant respectfully disagrees. Applicant respectfully submits that Wright, at col. 34, lines 17-30, provides:

> The client side system embodiment comprises a policy engine 832 operating in application space having a communication interface to management tools 816 of the operating system, a communication interface to a file filter 824 operating in the kernel space that controls access to the file system 826, a communication interface to a user interface module 802, a communication interface with the layered service provider (LSP) 814, and also having a communication interface to a packet filter engine 818 operating within a driver 834. In this example, the driver 834 is an NDIS intermediate driver 834 operating within the kernel of the operating system of the mobile device. The packet filter engine 818 has a communication interface with the layered service

provider (LSP) 814 operating in application space.

As seen above, Wright merely discloses that "client side system embodiment comprises a policy engine 832 operating in application space having a communication interface to management tools 816 of the operating system, a communication interface to a file filter 824 operating in the kernel space that controls access to the file filter 824 operating in the kernel space" and "a communication interface to a packet filter engine 818 … operating within the kernel of the operating system of the mobile device." (See id.)

First, Wright fails to disclose that *based on* policy engine 832, file filter 824 is operating in the kernel space, or that *based on* policy engine 832 packet, filter engine 818 is operating within the kernel. Rather, Wright merely discloses policy engine 832 has a communication interface with file filter 824 and a communication interface with packet filter engine 818.

Second, Wright does not disclose that either policy engine 832 or packet filter engine 818 is allowed to run *only* in the kernel space, let alone being allowed to run only in the kernel space *based on* policy engine 832.

Therefore, Wright does not disclose "***based on*** the first access policy information indicative of the execution environment policy: *allowing a first set of device application instances to* ***run only in a secure application environment*** *on the wireless end-user device*," as required by independent claims 2 and 8. Accordingly, Applicant respectfully submits that independent claims 2 and 8 should be allowed. As such, claims 3-7 depending from independent claim 2, and claims 9-13 depending from independent claim 8, should also be allowed.

B. Conclusion

Based on the foregoing reasons, Applicant respectfully requests allowance of claims 2-13 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/
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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.

August 6, 2024
Date

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

PTO/SB/06 (09-11)
Approved for use through 1/31/2014. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875	Application or Docket Number 17/567,594	Filing Date 01/03/2022	☐ 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)		(Column 2)	(Column 3)			
AMENDMENT	08/06/2024	CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA		RATE ($)	ADDITIONAL FEE ($)
	Total (37 CFR 1.16(i))	* 12	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)		(Column 2)	(Column 3)			
AMENDMENT		CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA		RATE ($)	ADDITIONAL FEE ($)
	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 Assistant
** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".	/AMANDA N FORD/
*** 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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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
17/567,594	01/03/2022	Gregory G. Raleigh	RALEP037D1C1C1C1C1	1081

106963 7590 07/18/2024

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

EXAMINER	
NAOREEN, NAZIA	

ART UNIT	PAPER NUMBER
2458	

NOTIFICATION DATE	DELIVERY MODE
07/18/2024	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

Office Action Summary	Application No. 17/567,594	Applicant(s) Raleigh et al.	
	Examiner NAZIA NAOREEN	Art Unit 2458	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 05/30/2024.

☐ 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) 2-13 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) 2-13 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 of Attachment(s) 2) Information Disclosure Statement(s) (PTO/SB/08a and/or PTO/SB/08b) Paper No(s)/Mail Date: 02/08/24, 06/10/24, 06/12/24, 06/14/24, and 06/25/24

DETAILED ACTION

Status of Claims:

1. Claims 2 – 13 are pending.

2. Claim 1 is cancelled. This rejection is **FINAL**.

Notice of Pre-AIA or AIA Status

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

Information Disclosure Statement

4. The information disclosure statement (IDS) was submitted on 02/08/24, 06/10/24, 06/12/24, 06/14/24, and 06/25/24. The submission is in compliance with the provisions of 37 CFR 1.97. Accordingly, the information disclosure statement is being considered by the examiner.

Response to Arguments

5. Applicant's arguments in the amendments filed, 05/30/2024, have been fully considered and are persuasive. A new ground of rejection has been presented based on the amendments.

6. The statutory double patenting, nonstatutory double patenting, and the 35 U.S.C. 101 rejections have been withdrawn based on the amendments.

Claim Rejections - 35 USC § 102

7. The following is a quotation of the appropriate paragraphs of pre-AIA 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

> A person shall be entitled to a patent unless –
>
> (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

8. Claim(s) 2 – 13 are rejected under pre-AIA 35 U.S.C. 102(b) as being anticipated by Wright (US 8020192).

As per claim 2, a method of operating a wireless end-user device, the method comprising:

providing first access policy information indicative of an execution environment policy **(Network environment location detection is performed by the policy engine 832** *(first access policy)*, **in accordance with rules implementing one or more location detection tests in the Rules set 840, based on network parameters, See Col. 34, Lines 49 - 67)**;

providing second access policy information indicative of a security policy **(The policy setting module 212 determines a security policy** *(second access policy)* **based upon the location detected by the location detection module 208 and communicated via a communication interface, See Col. 11, Lines 4 - 29)**;

based on the first access policy information indicative of the execution environment policy:

allowing a first set of device application instances to run only in a secure application environment on the wireless end-user device **(The client side system embodiment comprises a policy engine 832 operating in application space having a communication interface to management tools 816 of the operating system, See Col. 34, Lines 17 - 30)**;

based on the second access policy information indicative of the security policy **(Rules 840 comprise rules that define one or more security policies to be enforced by the Policy Engine, See Col. 35, Line 66 – Col. 36, Line 5 … Policies can have rules controlling the use of VPNs, See Col. 38, Lines 58 - 65)**:

establishing a first secure tunnel to a network tunnel endpoint **(A layer is inserted into the Winsock environment, which opens up a Transport Layer Security (TLS) or Secure Socket Layer (SSL) socket to the VPN server, and tunnels all application network traffic through that connection to the VPN server, See Col. 39, lines 6 - 16)**; and

directing all network data communications to and from the first set of device application instances, which are running only in the secure application environment, through the first secure tunnel **(The applications are unaware that the VPN is active. The VPN has a very small footprint, since TLS is included in Windows.RTM.. In this example, using the Winsock Environment, all communication between client and server is routed through a secure channel, See Col. 39, lines 6 - 16)**.

As per claim 3, the method of claim 2, wherein the security policy defines a first configuration indicating that a second set of device application instances are not allowed to use the first secure tunnel **(Network environment location detection is performed by the policy engine 832, in accordance with rules implementing one or more location detection tests ... The policy engine 832, in accordance with the current security policy, provides to the layered service provider 814 rules with respect to applications. For example, the engine 832 may provide a list of which applications can or cannot access the network, as well as the target IP addresses and ports that they are or not allowed to use. The layered service provider 814 then enforces the current policy in accordance with these rules applicable to applications, See Col. 34, Lines 49 - 67)**.

As per claim 4, the method of claim 3, wherein the first set of device application instances are used on behalf of an enterprise and the second set of device application instances are personal to a user of the wireless end-user device **(These one or more network parameters identifying the location are stored in a data object (e.g. look-up table) in memory 242** *(first set of device application instances)* **for the associated client device. Similarly, they may be stored in a data object in resident memory 220** *(second set of device application instances)*, **particularly for locations defined by the client system 201, See Col. 23, Lines 51 - 67 ... Clients installed by some other enterprise will have a different key, and clients installed in an unmanaged mode will not have a key, See Col. 17, Lines 36 - 46)**.

As per claim 5, the method of claim 4, further comprising: associating the first set of device application instances with the enterprise **(When a client mobile device connects via the Internet, it interacts with one or more of the enterprise side servers external to the firewall. The client contacts the external servers to retrieve policies and instructions. The external servers also perform key/identity management, client disable methods (e.g. unmanaged mode) and policy persistence, See Col. 14, Line 28 – Col. 15, Line 24)**.

As per claim 6, the method of claim 4, further comprising: associating the second set of device application instances as being personal to the user **(A very thin client host application resides on a client mobile**

device … As a result, a small relatively stable execution environment is available as part of the client device. When additional or different functionality is needed on the client, this new functionality is pushed to the client in an XML format … this approach could be used for instantiating portions of an application to clients … If the client requires a change to their implementation, they change their menu selections and implementation and behaviors are pushed to their respective client instances, See Col. 40, lines 1 - 24).

As per claim 7, the method of claim 2, wherein the first secure tunnel forms a portion of a virtual private network, VPN **(A layer is inserted into the Winsock environment, which opens up a Transport Layer Security (TLS) or Secure Socket Layer (SSL) socket to the VPN server, and tunnels all application network traffic through that connection to the VPN server, See Col. 39, lines 6 - 16)**.

As per claim 8, a wireless end-user device comprising:

a processor configured to:

provide first access policy information indicative of an execution environment policy **(Network environment location detection is performed by the policy engine 832** *(first access policy)***, in accordance with rules implementing one or more location detection tests in the Rules set 840, based on network parameters, See Col. 34, Lines 49 - 67)**;

provide second access policy information indicative of a security policy **(The policy setting module 212 determines a security policy** *(second access policy)* **based upon the location detected by the location detection module 208 and communicated via a communication interface, See Col. 11, Lines 4 - 29)**;

based on the first access policy information indicative of the execution environment policy:

allow a first set of device application instances to run only in a secure application environment on the wireless end-user device **(The client side system embodiment comprises a policy engine 832 operating in application space having a communication interface to management tools 816 of the operating system, See Col. 34, Lines 17 - 30)**;

based on the second access policy information indicative of the security policy **(Rules 840 comprise rules that define one or more security policies to be enforced by the Policy Engine, See Col. 35, Line 66 – Col. 36, Line 5 … Policies can have rules controlling the use of VPNs, See Col. 38, Lines 58 - 65)**:

establish a first secure tunnel to a network tunnel endpoint **(A layer is inserted into the Winsock environment, which opens up a Transport Layer Security (TLS) or Secure Socket Layer (SSL) socket to the VPN server, and tunnels all application network traffic through that connection to the VPN server, See Col. 39, lines 6 - 16)**; and

direct all network data communications to and from the first set of device application instances, which are running only in the secure application environment, through the first secure tunnel **(The applications are unaware that the VPN is active. The VPN has a very small footprint, since TLS is included in Windows.RTM.. In this example, using the Winsock Environment, all communication between client and server is routed through a secure channel, See Col. 39, lines 6 - 16)**.

As per claim 9, the wireless end-user device of claim 8, wherein the security policy defines a first configuration indicating that a second set of device application instances are not allowed to use the first secure tunnel **(Network environment location detection is performed by the policy engine 832, in accordance with rules implementing one or more location detection tests … The policy engine 832, in accordance with the current security policy, provides to the layered service provider 814 rules with respect to applications. For example, the engine 832 may provide a list of which applications can or cannot access the network, as well as the target IP addresses and ports that they are or not allowed to use. The layered service provider 814 then enforces the current policy in accordance with these rules applicable to applications, See Col. 34, Lines 49 - 67)**.

As per claim 10, the wireless end-user device of claim 9, wherein the first set of device application instances are used on behalf of an enterprise and the second set of device application instances are personal to a user of the wireless end-user device **(These one or more network parameters identifying the location are stored in a data object (e.g. look-up table) in memory 242** *(first set of device*

application instances) **for the associated client device. Similarly, they may be stored in a data object in resident memory 220** *(second set of device application instances)*, **particularly for locations defined by the client system 201, See Col. 23, Lines 51 - 67 ... Clients installed by some other enterprise will have a different key, and clients installed in an unmanaged mode will not have a key, See Col. 17, Lines 36 - 46)**.

As per claim 11, the wireless end-user device of claim 10, wherein the processor is further configured to: associate the first set of device application instances with the enterprise **(When a client mobile device connects via the Internet, it interacts with one or more of the enterprise side servers external to the firewall. The client contacts the external servers to retrieve policies and instructions. The external servers also perform key/identity management, client disable methods (e.g. unmanaged mode) and policy persistence, See Col. 14, Line 28 – Col. 15, Line 24)**.

As per claim 12, the wireless end-user device of claim 10, wherein the processor is further configured to: associate the second set of device application instances as being personal to the user **(A very thin client host application resides on a client mobile device ... As a result, a small relatively stable execution environment is available as part of the client device. When additional or different functionality is needed on the client, this new functionality is pushed to the client in an XML format ... this approach could be used for instantiating portions of an application to clients ... If the client requires a change to their implementation, they change their menu selections and implementation and behaviors are pushed to their respective client instances, See Col. 40, lines 1 - 24)**.

As per claim 13, the wireless end-user device of claim 8, wherein the first secure tunnel forms a portion of a virtual private network, VPN **(A layer is inserted into the Winsock environment, which opens up a Transport Layer Security (TLS) or Secure Socket Layer (SSL) socket to the VPN server, and tunnels all application network traffic through that connection to the VPN server, See Col. 39, lines 6 - 16)**.

Conclusion

9. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to NAZIA NAOREEN whose telephone number is (571)270-7282. The examiner can normally be reached M-F: 9:00 - 6:00.

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, Kevin Bates can be reached on 571-272-3980. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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

from a USPTO Customer Service Representative, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/NAZIA NAOREEN/
Primary Examiner, Art Unit 2458

Notice of References Cited	Application/Control No. 17/567,594	Applicant(s)/Patent Under Reexamination Raleigh et al.	
	Examiner NAZIA NAOREEN	Art Unit 2458	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-8020192-B2	2011-09-13	Wright; Michael	H04L63/20	380/258
	B					
	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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	V	
	W	
	X	

*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)
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
	17/567,594	Raleigh et al.
	Examiner	Art Unit
	NAZIA NAOREEN	2458

CPC - Searched*		
Symbol	**Date**	**Examiner**
H04W76/12	01/24/2024	NN
H04L12/1457	01/24/2024	NN
H04L12/4633	01/24/2024	NN
H04L41/0823	01/24/2024	NN
H04L67/34	01/24/2024	NN
H04M15/8033	01/24/2024	NN
Updated Search	07/10/2024	NN

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**
Inventor and Assignee	01/24/2024	NN
PE2ESEARCH (US-PGPUB, USPAT, USOCR, FIT, FPRS, EPO, JPO, DERWENT, IBM TDB)	01/24/2024	NN
Classification and Double Patenting	01/24/2024	NN
IP.com search, Google Scholar search	01/24/2024	NN
Updated Search, IP.com search, Google Scholar search	07/10/2024	NN

/NAZIA NAOREEN/ Primary Examiner, Art Unit 2458	

Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	17/567,594	Raleigh et al.
	Examiner	Art Unit
	NAZIA NAOREEN	2458

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

/NAZIA NAOREEN/ Primary Examiner, Art Unit 2458	

Index of Claims	Application/Control No.	Applicant(s)/Patent Under Reexamination
	17/567,594	Raleigh et al.
	Examiner	**Art Unit**
	NAZIA NAOREEN	2458

✓	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	01/24/2024	07/10/2024							
	1	✓	✓							
	2		✓							
	3		✓							
	4		✓							
	5		✓							
	6		✓							
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	8		✓							
	9		✓							
	10		✓							
	11		✓							
	12		✓							
	13		✓							

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	17567594
Filing Date	2022-01-03
First Named Inventor	RALEIGH, GREGORY
Art Unit	2458
Examiner Name	Naoreen, Nazia
Attorney Docket Number	RALEP037D1C1C1C1C1

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	9712331		2017-07-18	Poh; Lisuan et al.	
	2	8032920		2011-10-04	Maes; Stephane H.	
	3	9691082		2017-06-27	Burnett; Leonard et al.	

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
	1	20080181208		2008-07-31	Maes; Stephane H.	

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]
	1							☐

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ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /N.N/

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	17567594
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	Art Unit	2458
	Examiner Name	Naoreen, Nazia
	Attorney Docket Number	RALEP037D1C1C1C1C1

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
	1	Boutaba and Polyrakis, "Toward Extensible Policy Enforcement Points", in M. Sloman, J. Lobo, and E. Lupu (Eds.): POLICY 2001,LNCS 1995, pp. 247-261 (© Springer-Verlag Berlin Heidelbergm 2001)	☐
	2	Beigi et al., "Policy Transformation Techniques in Policy-based Systems Management", Proceedings Fifth IEEE International Workshop on Policies for Distributed Systems and Networks (2004)	☐
	3	Chaouchi et al., "Policy Based Networking in Integration Effort of 4G Networks and Services", 2004 IEEE 59th Vehicular Technology Conference, VTC 2004-Spring, pp. 2977-2981 Vol. 5.	☐
	4	Verma et al., "Simplifying Network Administration Using Policy-Based Management", IEEE Network, pp. 20-26 (March/ April 20).	☐
	5	3GPP TS 23.203 (v8.4.0 (2008-12) (3rd Generation Partnership Project; Technical Specification Group Services and System Aspects; Policy and charging control architecture (Release 8))	☐
	6	Plaintiff Headwater Research LLC's Disclosure of Asserted Claims and Infringement Contentions, case no. 2:23-cv-00398, -397.	☐
	7	File History of IPR2024-01041, filed June 20, 2024	☐
	8	IPR2024-01041 Petition for Inter Partes Review of U.S. Patent No. 8,924,543, filed June 20, 2024	☐
	9	File History of IPR2024-01042, filed June 20, 2024	☐

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	17567594
	Filing Date	2022-01-03
	First Named Inventor	RALEIGH, GREGORY
	Art Unit	2458
	Examiner Name	Naoreen, Nazia
	Attorney Docket Number	RALEP037D1C1C1C1C1

	10	IPR2024-01042 Petition for Inter Partes Review of U.S. Patent No. 8,924,543, filed June 20, 2024	☐

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

EXAMINER SIGNATURE

Examiner Signature	/NAZIA NAOREEN/	Date Considered	07/10/2024

*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.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /N.N/

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	17567594
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	Art Unit	2458
	Examiner Name	Naoreen, Nazia
	Attorney Docket Number	RALEP037D1C1C1C1C1

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)	2024-06-25
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.**

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /N.N/

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
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Not for submission under 37 CFR 1.99)

Application Number	17567594
Filing Date	2022-01-03
First Named Inventor	RALEIGH, GREGORY
Art Unit	2458
Examiner Name	Naoreen, Nazia
Attorney Docket Number	RALEP037D1C1C1C1C1

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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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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]
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	17567594
	Filing Date	2022-01-03
	First Named Inventor	RALEIGH, GREGORY
	Art Unit	2458
	Examiner Name	Naoreen, Nazia
	Attorney Docket Number	RALEP037D1C1C1C1C1

	1	IPR2023-01157 PATENT OWNER'S PRELIMINARY RESPONSE, dated October 24, 2023	☐
	2	IPR2023-01157 PETITIONER'S REPLY TO PATENT OWNER'S PRELIMINARY RESPONSE, dated December 6, 2023	☐
	3	IPR2023-01157 PATENT OWNER'S PRELIMINARY SUR-REPLY, dated December 20, 2023	☐
	4	IPR2023-01157 Decision Granting Institution of Inter Partes Review, dated January 22, 2024	☐
	5	IPR2023-01157 PATENT OWNER'S RESPONSE TO THE PETITION, dated May 8, 2024	☐
	6	IPR2023-01226 PATENT OWNER'S PRELIMINARY RESPONSE, dated November 15, 2023	☐
	7	IPR2023-01226 PETITIONER'S PRE-INSTITUTION REPLY, dated December 14, 2023	☐
	8	IPR2023-01226 PATENT OWNER'S PRELIMINARY SUR-REPLY, dated December 21, 2023	☐
	9	IPR2023-01226 Decision Granting Institution of Inter Partes Review, dated February 8, 2024	☐
	10	IPR2023-01226 PATENT OWNER'S RESPONSE TO THE PETITION, dated May 16, 2024	☐
	11	IPR2023-01250 PATENT OWNER'S PRELIMINARY RESPONSE, dated December 22, 2023	☐

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /N.N/

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	17567594
	Filing Date	2022-01-03
	First Named Inventor	RALEIGH, GREGORY
	Art Unit	2458
	Examiner Name	Naoreen, Nazia
	Attorney Docket Number	RALEP037D1C1C1C1C1

	12	IPR2023-01250 PETITIONER'S PRE-INSTITUTION REPLY, January 22, 2024	☐
	13	IPR2023-01250 PATENT OWNER'S PRELIMINARY SUR-REPLY, February 1, 2024	☐
	14	IPR2023-01250 Decision Granting Institution of Inter PartesReview, dated March 12, 2024	☐
	15	IPR2023-01253 PATENT OWNER'S PRELIMINARY RESPONSE, dated December 22, 2023	☐
	16	IPR2023-01253 PETITIONER'S PRE-INSTITUTION REPLY, dated January 22, 2024	☐
	17	IPR2023-01253 PATENT OWNER'S PRELIMINARY SUR-REPLY, dated February 1, 2024	☐
	18	IPR2023-01253 Decision Denying Institution of Inter Partes Review, dated March 21, 2024	☐
	19	IPR2023-01336 PATENT OWNER'S PRELIMINARY RESPONSE, dated December 29, 2023	☐
	20	IPR2023-01336 PETITIONER'S REPLY, dated February 5, 2024	☐
	21	IPR2023-01336 PATENT OWNER'S PRELIMINARY SUR-REPLY, dated February 20, 2024	☐
	22	IPR2023-01336 Decision Granting Institution of Inter Partes Review, dated March 25, 2024	☐

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /N.N/

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	17567594
	Filing Date	2022-01-03
	First Named Inventor	RALEIGH, GREGORY
	Art Unit	2458
	Examiner Name	Naoreen, Nazia
	Attorney Docket Number	RALEP037D1C1C1C1C1

	23	IPR2023-01337 PATENT OWNER'S PRELIMINARY RESPONSE, dated December 29, 2023	☐
	24	IPR2023-01337 PETITIONER'S REPLY, dated February 5, 2024	☐
	25	IPR2023-01337 PATENT OWNER'S PRELIMINARY SUR-REPLY, dated February 20, 2024	☐
	26	IPR2023-01337 Decision Granting Institution of Inter Partes Review, dated March 12, 2024	☐
	27	IPR2023-01360 PATENT OWNER'S PRELIMINARY RESPONSE, dated January 4, 2024	☐
	28	IPR2023-01360 Decision Granting Institution of Inter Partes Review, dated April 1, 2024	☐
	29	IPR2023-01361 PATENT OWNER'S PRELIMINARY RESPONSE, dated January 4, 2024	☐
	30	IPR2023-01361 Decision Denying Institution of Inter Partes Review, dated March 29, 2024	☐
	31	IPR2023-01361 PETITIONER'S REQUEST FOR REHEARING, dated April 26, 2024	☐
	32	IPR2023-01362 PATENT OWNER'S PRELIMINARY RESPONSE, dated January 4, 2024	☐
	33	IPR2023-01362 Decision Denying Institution of Inter Partes Review, dated March 29, 2024	☐

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /N.N/

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	17567594
	Filing Date	2022-01-03
	First Named Inventor	RALEIGH, GREGORY
	Art Unit	2458
	Examiner Name	Naoreen, Nazia
	Attorney Docket Number	RALEP037D1C1C1C1C1

	34	IPR2023-01362 PETITIONER'S REQUEST FOR REHEARING, dated April 26, 2024	☐
	35	IPR2023-01462 PATENT OWNER'S PRELIMINARY RESPONSE, dated January 4, 2024	☐
	36	IPR2023-01462 Decision Denying Institution of Inter Partes Review, dated March 29, 2024	☐
	37	IPR2023-01462 PETITIONER'S REQUEST FOR REHEARING, dated April 26, 2024	☐

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EXAMINER SIGNATURE

Examiner Signature	/NAZIA NAOREEN/	Date Considered	07/10/2024

*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.

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	Application Number	17567594
	Filing Date	2022-01-03
	First Named Inventor	RALEIGH, GREGORY
	Art Unit	2458
	Examiner Name	Naoreen, Nazia
	Attorney Docket Number	RALEP037D1C1C1C1C1

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)	2024-06-12
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.**

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

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

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

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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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Searches: 5
Markers: 0

Search #	Timestamp	Results	Page
1	2024-07-10 22:39 UTC	31,005,164	3
2	2024-07-10 22:43 UTC	3,171,945	4
3	2024-07-10 22:47 UTC	19,757,969	4
4	2024-07-10 22:50 UTC	3,202,281	4
5	2024-07-10 22:57 UTC	18,314,814	4

Content: Patents + NPL (195)

US Patents | US Designs | US Applications | EPO Patents | EPO Applications | China Patents | China Applications | Japan Patents | Japan Applications | Korea Patents | Korea Applications | WIPO Applications | Argentina Patents | Argentina Applications | Brazil Patents | Brazil Applications | Canada Patents | Canada Applications | Chile Patents | Chile Applications | Colombia Applications | Costa Rica Applications | Cuba Patents | Cuba Applications | Dominican Republic Applications | Ecuador Patents | Ecuador Applications | El Salvador Applications | Guatemala Applications | Honduras Applications | Mexico Patents | Mexico Applications | Nicaragua Patents | Panama Applications | Peru Applications | Trinidad & Tobago Patents | Uruguay Applications | Austria Patents | Austria Applications | Belarus Patents | Belgium Patents | Belgium Applications | Bosnia & Herzegovina Patents | Bosnia & Herzegovina Applications | Bulgaria Patents | Bulgaria Applications | Croatia Patents | Croatia Applications | Czech Republic Patents | Czech Republic Applications | Czechoslovakia Patents | Czechoslovakia Applications | Denmark Patents | Denmark Applications | Estonia Patents | Estonia Applications | EUIPO Patents | Finland Patents | Finland Applications | France Patents | France Applications | Germany Patents | Germany Applications | Great Britain Patents | Great Britain Applications | Greece Patents | Greece Applications | Hungary Patents | Hungary Applications | Iceland Patents | Iceland Applications | Ireland Patents | Ireland Applications | Italy Patents | Italy Applications | Latvia Patents | Latvia Applications | Lithuania Patents | Lithuania Applications | Luxembourg Patents | Luxembourg Applications | Malta Patents | Monaco Patents | Montenegro Patents | Montenegro Applications | Netherlands Patents | Netherlands Applications | Norway Patents | Norway Applications | Poland Patents | Poland Applications | Portugal Patents | Portugal Applications | Republic of Moldova Patents | Republic of Moldova Applications | Romania Patents | Romania Applications | San Marino Patents | San Marino Applications | Serbia Patents | Serbia Applications | Slovakia Patents | Slovakia Applications | Slovenia Patents | Spain Patents | Spain Applications | Sweden Patents | Sweden Applications | Switzerland Patents | Switzerland Applications | Ukraine Patents | Yugoslavia/Serbia and Montenegro Patents | Yugoslavia/Serbia and Montenegro Applications | Armenia Patents | Australia Patents | Australia Applications | Cyprus Patents | Gulf Cooperation Council Patents | Hong Kong Patents | India Patents | India Applications | Indonesia Patents | Indonesia Applications | Israel Patents | Israel Applications | Jordan Patents | Jordan Applications | Kyrgyzstan Patents | Macao Applications | Malaysia Patents | Mongolia Patents | New Zealand Patents | Philippines Patents | Philippines Applications | Saudi Arabia Patents | Saudi Arabia Applications | Singapore Patents | Singapore Applications | Taiwan Patents | Taiwan Applications | Tajikistan Patents | Tajikistan Applications | Thailand Patents | Thailand Applications | Uzbekistan Patents | Vietnam Patents | Algeria Patents | ARIPO Patents | ARIPO Applications | Egypt Patents | Kenya Patents | Malawi Patents | Morocco Patents | Morocco Applications | OAPI Patents | South Africa Patents | Tunisia Applications | Zambia Patents | Zimbabwe Patents | EAPO Patents | EAPO Applications | Georgia Patents | Georgia Applications | Kazakhstan Patents | Kazakhstan Applications | Russia Patents | Russia Applications | Turkey Patents | Turkey Applications | IEEE Xplore Publications: IEEE Periodicals | IEEE Xplore Publications: IEEE Conferences | IEEE Xplore Publications: IEEE Standards | IEEE Xplore Publications: IEEE Early Access | IEEE Xplore Publications: SMPTE Periodicals | IEEE Xplore Publications: SMPTE Conferences | IEEE Xplore Publications: SMPTE Standards | IEEE Xplore Publications: MIT Press eBooks | IEEE Xplore Publications: Wiley-IEEE eBooks | IEEE Xplore Publications: IBM Periodicals | IEEE Xplore Publications: URSI Periodicals | IEEE Xplore Publications: VDE Conferences | IEEE Xplore Publications: Periodicals from China | IEEE Xplore Publications: Ericsson Technology Review | IEEE Xplore Publications: Manning Books | IEEE Xplore Publications: Packt Books | IP.com Prior Art Database: The IP.com Journal | IP.com Prior Art Database: Internet Society RFC | IP.com Prior Art Database: IBM TDB Archive | IP.com Prior Art Database: Legacy Journals | IP.com Prior Art Database: Software Patent Institute | OnePetro.org: Periodicals at OnePetro.org | OnePetro.org: Conferences at OnePetro.org | Other Literature: IBM Redbooks | Other Literature: PubMed Central | Other Literature: arXiv.org

1 **2024-07-10 22:39 UTC | 31,005,164 results from**

De-Dup: None | **Relevance Cut-off:** None | **Sort:** Relevance

Main Concept: Text

execution environment policy and security policy and application instance

Concept Modifiers: None

Filters: None

2 **2024-07-10 22:43 UTC | 3,171,945 results from**

De-Dup: None | **Relevance Cut-off:** None | **Sort:** Relevance

Main Concept: Text
application instance and secure environment and vpn tunnel and policy

Concept Modifiers: None

Filters: None

3 **2024-07-10 22:47 UTC | 19,757,969 results from**

De-Dup: None | **Relevance Cut-off:** None | **Sort:** Relevance

Main Concept: Text
split vpn tunnel and enterprise and personal and application instances

Concept Modifiers: None

Filters: None

4 **2024-07-10 22:50 UTC | 3,202,281 results from**

De-Dup: None | **Relevance Cut-off:** None | **Sort:** Relevance

Main Concept: Text
first set of device application instances and second set of device application instances and policy

Concept Modifiers: None

Filters: None

5 **2024-07-10 22:57 UTC | 18,314,814 results from**

De-Dup: None | **Relevance Cut-off:** None | **Sort:** Relevance

Main Concept: Text
application instance and policy and vpn tunnel and enterprise and personal

Concept Modifiers: None

Filters: None

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

PTO/SB/08a (01-22)
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First Named Inventor	RALEIGH, GREGORY
Art Unit	2458
Examiner Name	Naoreen, Nazia
Attorney Docket Number	RALEP037D1C1C1C1C1

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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
	1	9887611				
	2	8028060				
	3	8914783				

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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
	1	20060039354				
	2	20100017506				
	3	20070038763				

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /N.N/

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	Attorney Docket Number	RALEP037D1C1C1C1C1

	4	~~20090207847~~				

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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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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]
	1	Enable-ExchangeCertificate, Microsoft, https://learn.microsoft.com/ en-us/powershell/module/exchange/enable-exchangecertificate?view =exchange-ps (last visited May 15, 2024)	☐
	2	Larry L. Peterson & Bruce S. Davie, Computer Networks: A Systems Approach (3d ed. 2003)	☐
	3	Elizabeth Woyke, World's Most Wired Airports, NBC News (Mar. 11, 2008, 10:02 AM), https://www.nbcnews.com/id/wbna23391922 (last visited May 15, 2024)	☐
	4	Madison Avenue Calling, Gainesville Sun (Jan. 19, 2007, 11:00 PM), https://www.gainesville.com/story/news/2007/01/20/madison-avenue-calling/31509806007/ (last visited May 15, 2024)	☐
	5	Spyros Sakellariadis, Using Exchange Server with SMTP and POP3, ITPro Today (May 31, 1998), https://www.itprotoday.com/email-and-calendaring/using-exchange-server-smtp-and-pop3#close-modal (last visited May 16, 2024)	☐

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /N.N/

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	Examiner Name	Naoreen, Nazia
	Attorney Docket Number	RALEP037D1C1C1C1C1

	6	Defendants' Motion to Focus Patent Claims, Headwater Research LLC v. AT&T Services, Inc., No. 2:23-cv-00397, ECF No. 53 (E.D. Tex. Apr. 11, 2024)	☐
	7	Defendants' Motion for Entry of an Order Focusing Asserted Patent Claim and Prior Art, Headwater Research LLC v. T-Mobile USA, Inc., No. 2:23-cv-00379, ECF No. 58 (E.D. Tex. Apr. 30, 2024)	☐
	8	Defendants' Motion for Entry of an Order Focusing Asserted Patent Claim and Prior Art, Headwater Research LLC v. Verizon Communications Inc., No. 2:23-cv-00352, ECF No. 63 (E.D. Tex. May 1, 2024)	☐
	9	IPR2024-00942 PETITION FOR INTER PARTES REVIEW of U.S. Patent No. 8,589,541, dated June 7, 2024	☐
	10	IPR2024-00942 FILE HISTORY OF PETITION FOR INTER PARTES REVIEW of U.S. Patent No. 8,589,541, dated June 7, 2024	☐
	11	IPR2024-00943 PETITION FOR INTER PARTES REVIEW of U.S. Patent No. 8,589,541, dated June 7, 2024	☐
	12	IPR2024-00943 FILE HISTORY OF PETITION FOR INTER PARTES REVIEW of U.S. Patent No. 8,589,541, dated	☐
	13	IPR2024-00944 PETITION FOR INTER PARTES REVIEW of U.S. Patent No. 8,589,541, dated June 7, 2024	☐
	14	IPR2024-00944 FILE HISTORY OF PETITION FOR INTER PARTES REVIEW of U.S. Patent No. 8,589,541, dated	☐

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

EXAMINER SIGNATURE

Examiner Signature	/NAZIA NAOREEN/	Date Considered	07/10/2024

*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.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	17567594
	Filing Date	2022-01-03
	First Named Inventor	RALEIGH, GREGORY
	Art Unit	2458
	Examiner Name	Naoreen, Nazia
	Attorney Docket Number	RALEP037D1C1C1C1C1

[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.

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☐ See attached certification statement.

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

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Signature	/Farshad Farjami/	Date (YYYY-MM-DD)	2024-06-14
Name/Print	Farshad Farjami	Registration Number	41014

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

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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.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /N.N/

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

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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

Application Number	17567594
Filing Date	2022-01-03
First Named Inventor	RALEIGH, GREGORY
Art Unit	
Examiner Name	
Attorney Docket Number	RALEP037D1C1C1C1C1

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	8180375		2012-05-15	Awad; Mina	

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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
	1	20090293378		2009-12-03	Benson; Christopher	

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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]
	1							☐

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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]

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EXAMINER SIGNATURE

Examiner Signature	/NAZIA NAOREEN/	Date Considered	07/10/2024

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Signature	/Farshad Farjami/	Date (YYYY-MM-DD)	2024-02-08
Name/Print	Farshad Farjami	Registration Number	41014

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Web Search History

date, time	web site	search string
7/10/2024 6:39:45 PM	Google Scholar	execution environment policy and security policy and application instance
7/10/2024 6:43:26 PM	Google Scholar	application instance and secure environment and vpn tunnel and policy
7/10/2024 6:47:15 PM	Google Scholar	split vpn tunnel and enterprise and personal and application instances
7/10/2024 6:50:01 PM	Google Scholar	first set of device application instances and second set of device application instances and policy
7/10/2024 6:57:29 PM	Google Scholar	application instance and policy and vpn tunnel and enterprise and personal

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Application Number	17567594
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First Named Inventor	RALEIGH, GREGORY
Art Unit	2458
Examiner Name	Naoreen, Nazia
Attorney Docket Number	RALEP037D1C1C1C1C1

U.S.PATENTS Remove

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	5987611		1999-11-16	Freund; Gregor	
	2	8000715		2011-08-16	Melpignano; Diego et al.	
	3	7881267		2011-02-01	Crosswy; William C. et al.	

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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
	1	20060039354		2006-02-23	Rao; Goutham P. et al.	
	2	20090207817		2009-08-20	Montemurro; Michael et al.	
	3	20090217065		2009-08-27	Araujo, JR.; Nelson S.	

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	4	20040123153		2004-06-24	Wright, Michael et al.	
	5	20060183461		2006-08-17	Pearce; Graham	

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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]
	1	Mobile Network Evolution: GSM to UMTS, CONNINGTECH (May 8, 2008, 12:26 pm), https://conningtech.wordpress.com/2008/05/08/mobile-network-evolution-gsm-to-umts/ (last visited May 23, 2024)	☐
	2	Patent Owner's Preliminary Response, Samsung Electronics Co., Ltd. v. Headwater Research LLC, No. IPR2023-01462, Paper 6 (PTAB Jan. 4, 2024)	☐
	3	Elizabeth Woyke, World's most wired airports, NBC News (Mar. 11, 2008, 10:02 am), https://www.nbcnews.com/id/wbna23391922 (last visited May 15, 2024)	☐
	4	File History of IPR2024-00945; filed on June 7, 2024	☐

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	Attorney Docket Number	RALEP037D1C1C1C1C1

	5	IPR2024-00945: Petition for Inter Partes Review of United States Patent No.: 9,215,613, filed on June 7, 2024	☐

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EXAMINER SIGNATURE

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PE2E SEARCH - Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	British Equivalents	Time Stamp
L68	4	("20140109175").pn.	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	ADJ	ON	ON	2024/07/03 03:04 PM
L69	96	split$tunnel SAME vpn	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	ADJ	ON	ON	2024/07/03 04:36 PM
L70	32307	tunnel near5 vpn	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	ADJ	ON	ON	2024/07/03 04:39 PM
L71	20294	vpn tunnel	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY,	ADJ	ON	ON	2024/07/03 04:39 PM

			CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)				
L72	118	vpn tunnel SAME enterprise SAME personal	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	ADJ	ON	ON	2024/07/03 04:39 PM
L73	4	("20140109175").pn.	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	ADJ	ON	ON	2024/07/09 04:16 PM
L74	3	("8931078").pn.	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH,	ADJ	ON	ON	2024/07/09 04:17 PM

			TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)				
L75	4	("20080052395").pn.	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	ADJ	ON	ON	2024/07/09 04:27 PM
L76	0	vpn tunnel AND unamanged mode	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	ADJ	ON	ON	2024/07/09 04:31 PM
L77	0	vpn SAME tunnel AND unamanged mode	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	ADJ	ON	ON	2024/07/09 04:32 PM
L78	0	vpn SAME tunnel AND unmanged mode	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU,	ADJ	ON	ON	2024/07/09 04:32 PM

			CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)				
L79	1032	vpn SAME tunnel AND unmanaged mode	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	ADJ	ON	ON	2024/07/09 04:32 PM
L80	244	vpn SAME tunnel AND unmanaged mode AND managed mode	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	ADJ	ON	ON	2024/07/09 04:32 PM
L81	249	vpn AND unmanaged mode AND managed mode	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN,	ADJ	ON	ON	2024/07/09 04:38 PM

			WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)				
L82	1	(11/926454).APP.	(USPAT; USOCR)	ADJ	ON	ON	2024/07/10 02:21 PM
L83	14	(H04W76/12 AND H04L12/1457 AND H04L12/4633 AND H04L41/0823 AND H04L67/34 AND H04M15/8033).cpc.	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	ADJ	ON	ON	2024/07/10 06:42 PM
L84	200595	(H04W76/12 OR H04L12/1457 OR H04L12/4633 OR H04L41/0823 OR H04L67/34 OR H04M15/8033).cpc.	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	ADJ	ON	ON	2024/07/10 06:42 PM
L85	0	trigger condition (H04W76/12 OR H04L12/1457 OR H04L12/4633 OR H04L41/0823 OR H04L67/34 OR H04M15/8033).cpc.	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	ADJ	ON	ON	2024/07/10 06:42 PM
L86	1738	trigger condition AND (H04W76/12 OR H04L12/1457 OR	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY,	ADJ	ON	ON	2024/07/10 06:42 PM

		H04L12/4633 OR H04L41/0823 OR H04L67/34 OR H04M15/8033).cpc.	CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)				
L87	413	network access AND trigger condition AND (H04W76/12 OR H04L12/1457 OR H04L12/4633 OR H04L41/0823 OR H04L67/34 OR H04M15/8033).cpc.	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	ADJ	ON	ON	2024/07/10 06:42 PM
L88	45	service design center AND trigger condition AND (H04W76/12 OR H04L12/1457 OR H04L12/4633 OR H04L41/0823 OR H04L67/34 OR H04M15/8033).cpc.	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	ADJ	ON	ON	2024/07/10 06:42 PM
L89	455	network element AND trigger condition AND (H04W76/12 OR H04L12/1457 OR H04L12/4633 OR H04L41/0823 OR H04L67/34 OR H04M15/8033).cpc.	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK,	ADJ	ON	ON	2024/07/10 06:42 PM

			TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)				
L90	82	network element AND trigger condition SAME notification AND (H04W76/12 OR H04L12/1457 OR H04L12/4633 OR H04L41/0823 OR H04L67/34 OR H04M15/8033).cpc.	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	ADJ	ON	ON	2024/07/10 06:42 PM
L91	5	network element AND trigger condition SAME notification AND (H04W76/12 OR H04L12/1457 OR H04L12/4633 OR H04L41/0823 OR H04L67/34 OR H04M15/8033).cpc. AND @py<"2009"	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	ADJ	ON	ON	2024/07/10 06:42 PM
L92	84	trigger condition AND (H04W76/12 OR H04L12/1457 OR H04L12/4633 OR H04L41/0823 OR H04L67/34 OR H04M15/8033).cpc. AND @py<"2009"	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	ADJ	ON	ON	2024/07/10 06:42 PM
L93	1	trigger condition AND cable SAME dsl AND (H04W76/12 OR H04L12/1457 OR	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU,	ADJ	ON	ON	2024/07/10 06:42 PM

		H04L12/4633 OR H04L41/0823 OR H04L67/34 OR H04M15/8033).cpc. AND @py<"2009"	CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)				
L94	135	trigger condition AND cable SAME dsl AND @py<"2009"	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	ADJ	ON	ON	2024/07/10 06:42 PM
L95	9	trigger condition SAME notification AND cable SAME dsl AND @py<"2009"	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	ADJ	ON	ON	2024/07/10 06:42 PM
L96	1	trigger condition SAME notification AND design center AND @py<"2009"	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN,	ADJ	ON	ON	2024/07/10 06:42 PM

			WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)				
L97	6	trigger condition AND design center AND @py<"2009"	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	ADJ	ON	ON	2024/07/10 06:42 PM
L98	795	trigger condition AND network element AND @py<"2009"	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	ADJ	ON	ON	2024/07/10 06:42 PM
L99	0	trigger condition AND network element SAME monitor$3 NEAR service usage AND @py<"2009"	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	ADJ	ON	ON	2024/07/10 06:42 PM
L100	0	trigger condition AND monitor$3 NEAR service usage AND @py<"2009"	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA,	ADJ	ON	ON	2024/07/10 06:42 PM

			EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)				
L101	0	trigger condition SAME notification SAME policy AND monitor$3 NEAR service usage AND @py<"2009"	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	ADJ	ON	ON	2024/07/10 06:42 PM
L102	2	trigger condition SAME notification SAME policy AND monitor$3 near5 service AND @py<"2009"	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	ADJ	ON	ON	2024/07/10 06:42 PM
L103	0	trigger condition SAME network access near5 activity AND monitor$3 near5 service AND @py<"2009"	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO;	ADJ	ON	ON	2024/07/10 06:42 PM

			JPO; DERWENT; IBM_TDB)				
L104	0	trigger condition SAME network access near5 activity AND @py<"2009"	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	ADJ	ON	ON	2024/07/10 06:42 PM
L105	0	trigger condition SAME network access near5 activit$3 AND @py<"2009"	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	ADJ	ON	ON	2024/07/10 06:42 PM
L106	13001	trigger condition AND @py<"2009"	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	ADJ	ON	ON	2024/07/10 06:42 PM
L107	130	trigger condition SAME network access AND @py<"2009"	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB,	ADJ	ON	ON	2024/07/10 06:42 PM

			HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)				
L108	3	trigger condition SAME network access SAME activit$3 AND @py<"2009"	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	ADJ	ON	ON	2024/07/10 06:42 PM
L109	6	network near5 provision$3 SAME service usage SAME activit$3 AND @py<"2009"	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	ADJ	ON	ON	2024/07/10 06:42 PM
L110	113	network near5 provision$3 SAME service usage AND @py<"2009"	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT;	ADJ	ON	ON	2024/07/10 06:42 PM

			IBM_TDB)				
L111	45	network near5 provision$3 SAME service usage AND trigger AND @py<"2009"	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	ADJ	ON	ON	2024/07/10 06:42 PM
L112	295	trigger AND network near5 provision$3 AND (H04W76/12 OR H04L12/1457 OR H04L12/4633 OR H04L41/0823 OR H04L67/34 OR H04M15/8033).cpc. AND @py<"2009"	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	ADJ	ON	ON	2024/07/10 06:42 PM
L113	126	trigger SAME (message OR notification) AND network near5 provision$3 AND (H04W76/12 OR H04L12/1457 OR H04L12/4633 OR H04L41/0823 OR H04L67/34 OR H04M15/8033).cpc. AND @py<"2009"	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	ADJ	ON	ON	2024/07/10 06:42 PM
L114	21	network access SAME service SAME notification SAME messages AND (H04W76/12 OR H04L12/1457 OR H04L12/4633 OR	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS,	ADJ	ON	ON	2024/07/10 06:42 PM

		H04L41/0823 OR H04L67/34 OR H04M15/8033).cpc. AND @py<"2009"	IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)				
L115	689	network access SAME service SAME notification SAME messages AND @py<"2009"	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	ADJ	ON	ON	2024/07/10 06:42 PM
L116	253	network access SAME service SAME notification SAME messages AND provision$3 AND @py<"2009"	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	ADJ	ON	ON	2024/07/10 06:42 PM
L117	116	network access SAME service SAME notification SAME messages AND provision$3 AND trigger AND @py<"2009"	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	ADJ	ON	ON	2024/07/10 06:42 PM

L118	82	network access SAME service SAME notification SAME messages AND provision$3 AND trigger AND instructions AND @py<"2009"	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	ADJ	ON	ON	2024/07/10 06:42 PM
L119	0	network access SAME service SAME notification SAME messages AND provision$3 AND trigger AND identification instructions AND @py<"2009"	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	ADJ	ON	ON	2024/07/10 06:42 PM
L120	0	network access SAME service SAME notification SAME messages AND provision$3 AND trigger AND identification abd translator AND @py<"2009"	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	ADJ	ON	ON	2024/07/10 06:42 PM
L121	22	network access SAME service SAME notification SAME messages AND provision$3 AND trigger AND identification AND translator AND @py<"2009"	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL,	ADJ	ON	ON	2024/07/10 06:42 PM

			NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)				
L122	61	network access SAME service SAME notification SAME messages AND provision$3 AND trigger AND policy AND @py<"2009"	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	ADJ	ON	ON	2024/07/10 06:42 PM
L123	2364	provision$3 AND trigger AND policy AND network element AND @py<"2009"	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	ADJ	ON	ON	2024/07/10 06:42 PM
L124	177	provision$3 AND trigger AND policy AND network access SAME notification AND @py<"2009"	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	ADJ	ON	ON	2024/07/10 06:42 PM
L125	10	provision$3 AND trigger	(US-PGPUB; USPAT;	ADJ	ON	ON	2024/07/10

		AND policy AND network access SAME notification SAME user device AND @py<"2009"	USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)				06:42 PM
L126	1	provision$3 AND trigger AND policy AND network access AND service design center AND @py<"2009"	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	ADJ	ON	ON	2024/07/10 06:42 PM
L127	3	provision$3 AND trigger AND policy AND network access AND design center AND @py<"2009"	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	ADJ	ON	ON	2024/07/10 06:42 PM
L128	0	provision$3 AND trigger AND policy AND network access SAME serivce usage AND @py<"2009"	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL,	ADJ	ON	ON	2024/07/10 06:42 PM

			PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)				
L129	28	provision$3 AND trigger AND policy AND network access SAME service usage AND @py<"2009"	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	ADJ	ON	ON	2024/07/10 06:42 PM
L130	431	provision$3 AND trigger AND policy AND network access AND cable SAME dsl AND @py<"2009"	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	ADJ	ON	ON	2024/07/10 06:42 PM
L131	23	provision$3 AND trigger SAME policy SAME notification AND network access AND cable SAME dsl AND @py<"2009"	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	ADJ	ON	ON	2024/07/10 06:42 PM
L132	0	network access near5 end user near5 activity	(US-PGPUB; USPAT; USOCR; FIT (AP, AT,	ADJ	ON	ON	2024/07/10 06:42 PM

		AND trigger AND (H04W76/12 OR H04L12/1457 OR H04L12/4633 OR H04L41/0823 OR H04L67/34 OR H04M15/8033).cpc. AND @py<"2009"	AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)				
L133	0	network access near5 user near5 activity AND trigger AND (H04W76/12 OR H04L12/1457 OR H04L12/4633 OR H04L41/0823 OR H04L67/34 OR H04M15/8033).cpc. AND @py<"2009"	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	ADJ	ON	ON	2024/07/10 06:42 PM
L134	0	network access near5 user near5 activity AND (H04W76/12 OR H04L12/1457 OR H04L12/4633 OR H04L41/0823 OR H04L67/34 OR H04M15/8033).cpc. AND @py<"2009"	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	ADJ	ON	ON	2024/07/10 06:42 PM
L135	2468	network access AND (H04W76/12 OR H04L12/1457 OR H04L12/4633 OR H04L41/0823 OR H04L67/34 OR H04M15/8033).cpc. AND @py<"2009"	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE,	ADJ	ON	ON	2024/07/10 06:42 PM

			SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)				
L136	38	network access SAME notification AND (H04W76/12 OR H04L12/1457 OR H04L12/4633 OR H04L41/0823 OR H04L67/34 OR H04M15/8033).cpc. AND @py<"2009"	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	ADJ	ON	ON	2024/07/10 06:42 PM
L137	154	network element AND network access SAME notification AND trigger AND @py<"2009"	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	ADJ	ON	ON	2024/07/10 06:42 PM
L138	588	network element AND network access SAME notification AND trigger AND design centerAND @py<"2009"	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	ADJ	ON	ON	2024/07/10 06:42 PM
L139	0	network element AND network access SAME notification AND trigger	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY,	ADJ	ON	ON	2024/07/10 06:42 PM

		AND design center AND @py<"2009"	CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)				
L140	2	("9288276").pn.	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	ADJ	ON	ON	2024/07/10 06:42 PM
L141	14	(network access notification).clm. AND (H04W76/12 OR H04L12/1457 OR H04L12/4633 OR H04L41/0823 OR H04L67/34 OR H04M15/8033).cpc.	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	ADJ	ON	ON	2024/07/10 06:42 PM
L142	24	network access notification AND (H04W76/12 OR H04L12/1457 OR H04L12/4633 OR H04L41/0823 OR H04L67/34 OR H04M15/8033).cpc.	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH,	ADJ	ON	ON	2024/07/10 06:42 PM

			TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)				
L143	1150	((("RALEIGH") near3 ("Gregory")) OR (("RAISSINIA") near3 ("Alireza")) OR (("GREEN") near3 ("Jeffrey"))).INV.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	ADJ	ON	ON	2024/07/10 06:42 PM
L144	105	((("HEADWATER") near3 ("RESEARCH") near3 ("LLC"))).AS,AANM.	(USPAT)	ADJ	ON	ON	2024/07/10 06:42 PM
L145	211	L64 AND L65	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	ADJ	ON	ON	2024/07/10 06:42 PM

PE2E SEARCH - Search History (Interference)

There are no Interference searches to show.



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17567594	06/25/2024

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PTO/SB/08a (01-22)
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (**Not for submission under 37 CFR 1.99**)		
	Application Number	17567594
	Filing Date	2022-01-03
	First Named Inventor	RALEIGH, GREGORY
	Art Unit	2458
	Examiner Name	Naoreen, Nazia
	Attorney Docket Number	RALEP037D1C1C1C1C1

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	9712331		2017-07-18	Poh; Lisuan et al.	
	2	8032920		2011-10-04	Maes; Stephane H.	
	3	9691082		2017-06-27	Burnett; Leonard et al.	

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
	1	20080181208		2008-07-31	Maes; Stephane H.	

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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]
	1							☐

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NON-PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T5
	1	Boutaba and Polyrakis, "Toward Extensible Policy Enforcement Points", in M. Sloman, J. Lobo, and E. Lupu (Eds.): POLICY 2001,LNCS 1995, pp. 247-261 (© Springer-Verlag Berlin Heidelbergm 2001)	☐
	2	Beigi et al., "Policy Transformation Techniques in Policy-based Systems Management", Proceedings Fifth IEEE International Workshop on Policies for Distributed Systems and Networks (2004)	☐
	3	Chaouchi et al., "Policy Based Networking in Integration Effort of 4G Networks and Services", 2004 IEEE 59th Vehicular Technology Conference, VTC 2004-Spring, pp. 2977-2981 Vol. 5.	☐
	4	Verma et al., "Simplifying Network Administration Using Policy-Based Management", IEEE Network, pp. 20-26 (March/ April 20).	☐
	5	3GPP TS 23.203 (v8.4.0 (2008-12) (3rd Generation Partnership Project; Technical Specification Group Services and System Aspects; Policy and charging control architecture (Release 8))	☐
	6	Plaintiff Headwater Research LLC's Disclosure of Asserted Claims and Infringement Contentions, case no. 2:23-cv-00398, -397.	☐
	7	File History of IPR2024-01041, filed June 20, 2024	☐
	8	IPR2024-01041 Petition for Inter Partes Review of U.S. Patent No. 8,924,543, filed June 20, 2024	☐
	9	File History of IPR2024-01042, filed June 20, 2024	☐

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	Attorney Docket Number	RALEP037D1C1C1C1C1

	10	IPR2024-01042 Petition for Inter Partes Review of U.S. Patent No. 8,924,543, filed June 20, 2024	☐

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Examiner Signature		Date Considered	

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	Attorney Docket Number	RALEP037D1C1C1C1C1

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)	2024-06-25
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.**

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ELECTRONIC ACKNOWLEDGEMENT RECEIPT

APPLICATION #	RECEIPT DATE / TIME	ATTORNEY DOCKET #
17/567,594	**06/25/2024 02:35:16 PM Z ET**	**RALEP037D1C1C1C1C1**

Title of Invention

Enterprise Access Control and Accounting Allocation for Access Networks

Application Information

APPLICATION TYPE	Utility - Nonprovisional Application under 35 USC 111(a)	PATENT #	-
CONFIRMATION #	1081	FILED BY	Evan Gunderman
PATENT CENTER #	66109931	FILING DATE	01/03/2022
CUSTOMER #	106963	FIRST NAMED INVENTOR	Gregory G. Raleigh
CORRESPONDENCE ADDRESS	-	AUTHORIZED BY	Michael Farjami

Documents

TOTAL DOCUMENTS: 9

DOCUMENT	PAGES	DESCRIPTION	SIZE (KB)
RALEP037D1C1C1C1C1_IDS_June_25_24.pdf	4	Information Disclosure Statement (IDS) Form (SB08)	894 KB
Warning: This is not a USPTO supplied IDS fillable form. Data in the form cannot be automatically loaded to other USPTO systems.			
EX-1006 1995LectureNotesInComputerScience247.pdf	15	Non Patent Literature	2319 KB
EX-1007 2004IEEEInternationalWorkshopOnPoliciesForDistributedSystemsAndNetworks13.pdf	10	Non Patent Literature	1532 KB

EX-1008 2004IEEEVehicularTechnologyConference2977.pdf	5	Non Patent Literature	1658 KB

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EX-1009 162IEEENetwork20.pdf	7	Non Patent Literature	732 KB
EX-1010 3GPP TS 23203-840.pdf	111	Non Patent Literature	5804 KB
EX-1014 240112-Headwater_Verizon_352-PICs.pdf	13	Non Patent Literature	778 KB
IPR2024-01041 Petition for Inter Partes Review of U.S. Patent No. 8924543.pdf	84	Non Patent Literature	1066 KB
IPR2024-01042 Petition for Inter Partes Review of U.S. Patent No. 8924543.pdf	89	Non Patent Literature	1071 KB

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DOCUMENT	MESSAGE DIGEST(SHA-512)
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2004IEEEInternationalWorkshopOnPoliciesForDistributedSystemsAndNetworks13.pdf	8A61D6DF9E657A78E3087BE3994875F94A962020C1A284BE5C783C4F0955A91D6978FB9D04662E3
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EX-1009 162IEEENetwork20.pdf	FA566BC5539D14718055745OD628557594048EFAEBD471319871E738869358AD8B2AA1B31F4F697E8EDD8353929BE9AB2281009A5AE9EBC6B785D2D81D6C02C2
EX-1010 3GPP TS 23203-840.pdf	EAC73D814E70AFFC49911B3F61D32710FD8A4E3B3A5BD676633C687D1A82540230BDABFA495CDFE7280B9C0C543387B7F74348404AF1D95F1BECEE9D1FFAC1A9
EX-1014 240112-Headwater_Verizon_352-PICs.pdf	7EC96C3F49D581AC1EB684130BECD46E3CEA2F3D8645E4AF140C7D4F5550BB7893222D482BEADA4AA1BF60CD84F4B7F9B9BD46843ABC64DD347D96C384153348
IPR2024-01041 Petition for Inter Partes Review of U.S. Patent No. 8924543.pdf	B8CE95CF876F51C7ABD9A2A741B216625EBB8F5A485D5C0F39BD6886B0A66A7C04BD7B92191309374FDC42B6A9FEAD061E45B5F5B3B72D84838AD6BBDF46E2D6
IPR2024-01042 Petition for Inter Partes Review of U.S. Patent No. 8924543.pdf	01ACCD85682907D02260E6D60ED3A274791476C47DF958066D9B0D3DAFF0D32A6507019F7A818756B7C426FC36A840DC2614DBB4B7EC4EEC238EAC3FCEA09EF7

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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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ELECTRONIC ACKNOWLEDGEMENT RECEIPT

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17/567,594	**06/14/2024 07:37:09 PM Z ET**	**RALEP037D1C1C1C1C1**

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Enterprise Access Control and Accounting Allocation for Access Networks

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PATENT CENTER #	65981950	FILING DATE	01/03/2022
CUSTOMER #	106963	FIRST NAMED INVENTOR	Gregory G. Raleigh
CORRESPONDENCE ADDRESS	-	AUTHORIZED BY	Michael Farjami

Documents

TOTAL DOCUMENTS: 12

DOCUMENT	PAGES	DESCRIPTION	SIZE (KB)
RALEP037D1C1C1C1C1 IDS.pdf	6	Information Disclosure Statement (IDS) Form (SB08)	1253 KB
IPR2024-00942_EX1008 - Enable-ExchangeCertificate Microsoft.pdf	10	Non Patent Literature	1763 KB
IPR2024-00942_EX1009 - Petersen and Davie Computer Networks 3rd edition.pdf	20	Non Patent Literature	5729 KB
IPR2024-00942_EX1012 - Worlds most wired airports NBC News.pdf	16	Non Patent Literature	17628 KB

IPR2024-00942_EX1013 - Madison Avenue Calling The Gainesville Sun.pdf	14	Non Patent Literature	5712 KB
IPR2024-00942_EX1014 - Using Exchange Server with SMTP and POP3 ITPro Today.pdf	23	Non Patent Literature	10344 KB
IPR2024-00942_EX1020 - ATT Motion to Focus.pdf	17	Non Patent Literature	1033 KB
IPR2024-00942_EX1021 - Motion to Focus T-Mobile.pdf	14	Non Patent Literature	4248 KB
IPR2024-00942_EX1022 - Verizon Motion to Focus.pdf	14	Non Patent Literature	1056 KB
IPR2024-00942_2024-06-07_Paper 01_Google Petition for IPR of US 8589541.pdf	111	Non Patent Literature	1649 KB
IPR2024-00943_2024-06-07_Paper 01_Google Petition for IPR of US 8589541.pdf	115	Non Patent Literature	1746 KB
IPR2024-00944_2024-06-07_Paper 01_Google Petition for IPR of US 8589541.pdf	97	Non Patent Literature	1601 KB

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IPR2024-00942_EX1009 - Petersen and Davie Computer Networks 3rd edition.pdf	BE05AC27F11B7A8FF90D338FA764FF6C884E3E906FB391D65255B4EB42BFDFB909DDBF25F8C7EE5E76DE9EBC79056F9B2232D99142A7E217457312CDCC57B1AC
IPR2024-00942_EX1012 - Worlds most wired airports NBC News.pdf	BF19A898FAEA4274A9EE566AF84B2E965868CE628812B090F7048D67575F03EFD4E5B4E552D243FB517AFB56A9AFE128590EF9B577F247C6BF6B8C11B70414B2
IPR2024-00942_EX1013 - Madison Avenue Calling The Gainesville Sun.pdf	C0807CAE9B0B534C8C0EF99A126A1738EEE0CAE8B7E12450463E338718CDEE5E416B57781F24C9B2C7B5FABDD207025498476A7C3D750318601AB6E999F9A23E
IPR2024-00942_EX1014 - Using Exchange Server with SMTP and POP3 ITPro Today.pdf	FD3485DB4AEF5D4369086871 6B4A9CD908558EF97F0A7CB37564B7796083ECBA658FC49C18042FE4FC55740D933C500C3A61DC4D81115A5FD4234C9FED6C87AD
IPR2024-00942_EX1020 - ATT Motion to Focus.pdf	F36634D80EDEB0CDF025A5A8BAD1CDC6A08907EC2A5B93F38427203B92B5115D748F8FDE856E7308FDCF3008B40168D551D57EA3D979DE9A8E4EAEB55CE9CEC6
IPR2024-00942_EX1021 - Motion to Focus T-Mobile.pdf	A1B57C0D520A5B90F06974B4F656210336AF0C0D1DD52183A6BBB67043E9942BF33D1C398930AEEE470B489BCF8B5BDDF889D4E518D0229BAEDE9B491AAF1853
IPR2024-00942_EX1022 - Verizon Motion to Focus.pdf	040617713 12FD1D4E7EDEA7598EE33BFC951DE9C96F2795ED80195C37DEFE93A0B3A31FC87744586F7ACE0C69124CE797114EB230815A5DBBFDCF0F7C1B25FDA
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IPR2024-00944_2024-06-07_Paper 01_Google Petition for IPR of US 8589541.pdf	B06973EC375E49944655BB11D607B00598360B8A11A7C9B57269DBA753AC90862531DA7E1F3FDEFBDCF4D2A8248974EC33D53DEAD973DE474EF153B1C2EA73FF

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	Art Unit	2458
	Examiner Name	Naoreen, Nazia
	Attorney Docket Number	RALEP037D1C1C1C1C1

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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
	1	5987611				
	2	8028060				
	3	8914783				

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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
	1	20060039354				
	2	20100017506				
	3	20070038763				

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
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	Examiner Name	Naoreen, Nazia
	Attorney Docket Number	RALEP037D1C1C1C1C1

	4	20090207817				

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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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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]
	1	Enable-ExchangeCertificate, Microsoft, https://learn.microsoft.com/ en-us/powershell/module/exchange/enable-exchangecertificate?view =exchange-ps (last visited May 15, 2024)	☐
	2	Larry L. Peterson & Bruce S. Davie, Computer Networks: A Systems Approach (3d ed. 2003)	☐
	3	Elizabeth Woyke, World's Most Wired Airports, NBC News (Mar. 11, 2008, 10:02 AM), https://www.nbcnews.com/id/wbna23391922 (last visited May 15, 2024)	☐
	4	Madison Avenue Calling, Gainesville Sun (Jan. 19, 2007, 11:00 PM), https://www.gainesville.com/story/news/2007/01/20/madison-avenue-calling/31509806007/ (last visited May 15, 2024)	☐
	5	Spyros Sakellariadis, Using Exchange Server with SMTP and POP3, ITPro Today (May 31, 1998), https://www.itprotoday.com/email-and-calendaring/using-exchange-server-smtp-and-pop3#close-modal (last visited May 16, 2024)	☐

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	Attorney Docket Number	RALEP037D1C1C1C1C1

	6	Defendants' Motion to Focus Patent Claims, Headwater Research LLC v. AT&T Services, Inc., No. 2:23-cv-00397, ECF No. 53 (E.D. Tex. Apr. 11, 2024)	☐
	7	Defendants' Motion for Entry of an Order Focusing Asserted Patent Claim and Prior Art, Headwater Research LLC v. T-Mobile USA, Inc., No. 2:23-cv-00379, ECF No. 58 (E.D. Tex. Apr. 30, 2024)	☐
	8	Defendants' Motion for Entry of an Order Focusing Asserted Patent Claim and Prior Art, Headwater Research LLC v. Verizon Communications Inc., No. 2:23-cv-00352, ECF No. 63 (E.D. Tex. May 1, 2024)	☐
	9	IPR2024-00942 PETITION FOR INTER PARTES REVIEW of U.S. Patent No. 8,589,541, dated June 7, 2024	☐
	10	IPR2024-00942 FILE HISTORY OF PETITION FOR INTER PARTES REVIEW of U.S. Patent No. 8,589,541, dated June 7, 2024	☐
	11	IPR2024-00943 PETITION FOR INTER PARTES REVIEW of U.S. Patent No. 8,589,541, dated June 7, 2024	☐
	12	IPR2024-00943 FILE HISTORY OF PETITION FOR INTER PARTES REVIEW of U.S. Patent No. 8,589,541, dated	☐
	13	IPR2024-00944 PETITION FOR INTER PARTES REVIEW of U.S. Patent No. 8,589,541, dated June 7, 2024	☐
	14	IPR2024-00944 FILE HISTORY OF PETITION FOR INTER PARTES REVIEW of U.S. Patent No. 8,589,541, dated	☐

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

EXAMINER SIGNATURE

Examiner Signature		Date Considered	

*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.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	17567594
	Filing Date	2022-01-03
	First Named Inventor	RALEIGH, GREGORY
	Art Unit	2458
	Examiner Name	Naoreen, Nazia
	Attorney Docket Number	RALEP037D1C1C1C1C1

[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)		
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	Filing Date	2022-01-03
	First Named Inventor	RALEIGH, GREGORY
	Art Unit	2458
	Examiner Name	Naoreen, Nazia
	Attorney Docket Number	RALEP037D1C1C1C1C1

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)	2024-06-14
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

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

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

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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.

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	17567594
	Filing Date	2022-01-03
	First Named Inventor	RALEIGH, GREGORY
	Art Unit	2458
	Examiner Name	Naoreen, Nazia
	Attorney Docket Number	RALEP037D1C1C1C1C1

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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]

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	Art Unit	2458
	Examiner Name	Naoreen, Nazia
	Attorney Docket Number	RALEP037D1C1C1C1C1

	1	IPR2023-01157 PATENT OWNER'S PRELIMINARY RESPONSE, dated October 24, 2023	☐
	2	IPR2023-01157 PETITIONER'S REPLY TO PATENT OWNER'S PRELIMINARY RESPONSE, dated December 6, 2023	☐
	3	IPR2023-01157 PATENT OWNER'S PRELIMINARY SUR-REPLY, dated December 20, 2023	☐
	4	IPR2023-01157 Decision Granting Institution of Inter Partes Review, dated January 22, 2024	☐
	5	IPR2023-01157 PATENT OWNER'S RESPONSE TO THE PETITION, dated May 8, 2024	☐
	6	IPR2023-01226 PATENT OWNER'S PRELIMINARY RESPONSE, dated November 15, 2023	☐
	7	IPR2023-01226 PETITIONER'S PRE-INSTITUTION REPLY, dated December 14, 2023	☐
	8	IPR2023-01226 PATENT OWNER'S PRELIMINARY SUR-REPLY, dated December 21, 2023	☐
	9	IPR2023-01226 Decision Granting Institution of Inter Partes Review, dated February 8, 2024	☐
	10	IPR2023-01226 PATENT OWNER'S RESPONSE TO THE PETITION, dated May 16, 2024	☐
	11	IPR2023-01250 PATENT OWNER'S PRELIMINARY RESPONSE, dated December 22, 2023	☐

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	Filing Date	2022-01-03
	First Named Inventor	RALEIGH, GREGORY
	Art Unit	2458
	Examiner Name	Naoreen, Nazia
	Attorney Docket Number	RALEP037D1C1C1C1C1

	12	IPR2023-01250 PETITIONER'S PRE-INSTITUTION REPLY, January 22, 2024	☐
	13	IPR2023-01250 PATENT OWNER'S PRELIMINARY SUR-REPLY, February 1, 2024	☐
	14	IPR2023-01250 Decision Granting Institution of Inter PartesReview, dated March 12, 2024	☐
	15	IPR2023-01253 PATENT OWNER'S PRELIMINARY RESPONSE, dated December 22, 2023	☐
	16	IPR2023-01253 PETITIONER'S PRE-INSTITUTION REPLY, dated January 22, 2024	☐
	17	IPR2023-01253 PATENT OWNER'S PRELIMINARY SUR-REPLY, dated February 1, 2024	☐
	18	IPR2023-01253 Decision Denying Institution of Inter Partes Review, dated March 21, 2024	☐
	19	IPR2023-01336 PATENT OWNER'S PRELIMINARY RESPONSE, dated December 29, 2023	☐
	20	IPR2023-01336 PETITIONER'S REPLY, dated February 5, 2024	☐
	21	IPR2023-01336 PATENT OWNER'S PRELIMINARY SUR-REPLY, dated February 20, 2024	☐
	22	IPR2023-01336 Decision Granting Institution of Inter Partes Review, dated March 25, 2024	☐

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
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	Filing Date	2022-01-03
	First Named Inventor	RALEIGH, GREGORY
	Art Unit	2458
	Examiner Name	Naoreen, Nazia
	Attorney Docket Number	RALEP037D1C1C1C1C1

	23	IPR2023-01337 PATENT OWNER'S PRELIMINARY RESPONSE, dated December 29, 2023	☐
	24	IPR2023-01337 PETITIONER'S REPLY, dated February 5, 2024	☐
	25	IPR2023-01337 PATENT OWNER'S PRELIMINARY SUR-REPLY, dated February 20, 2024	☐
	26	IPR2023-01337 Decision Granting Institution of Inter Partes Review, dated March 12, 2024	☐
	27	IPR2023-01360 PATENT OWNER'S PRELIMINARY RESPONSE, dated January 4, 2024	☐
	28	IPR2023-01360 Decision Granting Institution of Inter Partes Review, dated April 1, 2024	☐
	29	IPR2023-01361 PATENT OWNER'S PRELIMINARY RESPONSE, dated January 4, 2024	☐
	30	IPR2023-01361 Decision Denying Institution of Inter Partes Review, dated March 29, 2024	☐
	31	IPR2023-01361 PETITIONER'S REQUEST FOR REHEARING, dated April 26, 2024	☐
	32	IPR2023-01362 PATENT OWNER'S PRELIMINARY RESPONSE, dated January 4, 2024	☐
	33	IPR2023-01362 Decision Denying Institution of Inter Partes Review, dated March 29, 2024	☐

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	First Named Inventor	RALEIGH, GREGORY
	Art Unit	2458
	Examiner Name	Naoreen, Nazia
	Attorney Docket Number	RALEP037D1C1C1C1C1

	34	IPR2023-01362 PETITIONER'S REQUEST FOR REHEARING, dated April 26, 2024	☐
	35	IPR2023-01462 PATENT OWNER'S PRELIMINARY RESPONSE, dated January 4, 2024	☐
	36	IPR2023-01462 Decision Denying Institution of Inter Partes Review, dated March 29, 2024	☐
	37	IPR2023-01462 PETITIONER'S REQUEST FOR REHEARING, dated April 26, 2024	☐

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Examiner Signature		Date Considered	

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Signature	/Farshad Farjami/	Date (YYYY-MM-DD)	2024-06-12
Name/Print	Farshad Farjami	Registration Number	41014

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PATENT AND TRADEMARK OFFICE

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

ELECTRONIC ACKNOWLEDGEMENT RECEIPT

APPLICATION #	RECEIPT DATE / TIME	ATTORNEY DOCKET #
17/567,594	**06/12/2024 03:56:03 PM Z ET**	**RALEP037D1C1C1C1C1**

Title of Invention

Enterprise Access Control and Accounting Allocation for Access Networks

Application Information

APPLICATION TYPE	Utility - Nonprovisional Application under 35 USC 111(a)	PATENT #	-
CONFIRMATION #	1081	FILED BY	Evan Gunderman
PATENT CENTER #	65940496	FILING DATE	01/03/2022
CUSTOMER #	106963	FIRST NAMED INVENTOR	Gregory G. Raleigh
CORRESPONDENCE ADDRESS	-	AUTHORIZED BY	Michael Farjami

Documents

TOTAL DOCUMENTS: 11

DOCUMENT	PAGES	DESCRIPTION	SIZE (KB)
RALEP037D1C1C1C1C1 IDS 061124.pdf	7	Information Disclosure Statement (IDS) Form (SB08)	1253 KB
2023-01557 Refs.pdf	114	Non Patent Literature	1656 KB
2023-01226 Refs.pdf	96	Non Patent Literature	1179 KB
2023-01250 Refs.pdf	100	Non Patent Literature	1058 KB
2023-01253 Refs.pdf	97	Non Patent Literature	1047 KB
2023-01336 Refs.pdf	93	Non Patent Literature	1011 KB
2023-01337 Refs.pdf	121	Non Patent Literature	1151 KB

2023-01360 Refs.pdf	45	Non Patent Literature	410 KB
2023-01361 Refs.pdf	62	Non Patent Literature	838 KB
2023-01362 Refs.pdf	71	Non Patent Literature	877 KB
2023-01462 Refs.pdf	68	Non Patent Literature	739 KB

Digest

DOCUMENT	MESSAGE DIGEST(SHA-512)
RALEP037D1C1C1C1C1 IDS 061124.pdf	1A39274226B8E13B9D88839512794659A1C33045B9BE735FF975B2CFB96CD6E2EDFAAF434616DA93996471C15117B47592DEB108DF7E0C896D46ABBD10EDAB1F
2023-01557 Refs.pdf	768D0BCB6C5665158089772919 3CFFC0E0DCD7C5EE18BA715FC9ECD324EE78117AD329A82DB05CF86FC07C76CAFAD5099312A7254B35D60B0B4C0D3E831AB483
2023-01226 Refs.pdf	460ADB94A9ABE58EB5CDE1D057BDFD1EBD13F81E7B62743C71B8E664F24CEEA015422EF362311E123995CF2A59F1A8E5298DEFD948105AC4F943ED049D5F6E3C
2023-01250 Refs.pdf	4F2A73151950FB0CFDEA54C72CE1852EA8F23C27CFD02EFD6A7E9C57B6B3BD82A77C08411EB76335AA595E1200844CAC0DC0AE52D1177DD7E5916373D20C4B89
2023-01253 Refs.pdf	13BCFC6CBD25AFE7812B1A69E61006F523FB285A6F3C96A2235D9463F813ECD83A66DF75E747D7CEA5F9201A0C59913C59F92894853941 3E637C1205F7FBF50C
2023-01336 Refs.pdf	591B71A138979A1484C4AB0D174AC92966217E2881F748A0997544483E25AF4D6F484B0305182ED6C04078C855CEACFA1708A90F6A2A5FC68BF0F4868FAD6EC2
2023-01337 Refs.pdf	0F1D2A034426ACCC242A41E06BF6881180741EBA577647D94FE4B0E2FBA30A0861A88820598E9B88932A8E8BB29A36E9AF98

	E39A5AD42976C0B8721D9CD4D22B
2023-01360 Refs.pdf	A446F79B9C8652BE959414D2A2B050520C74C2F1367CA17DD4B557CF0BDF3F0C42AA3F758F203EA3AE279862D5CEEADB444F545B7027AD28127590B804E5B67C
2023-01361 Refs.pdf	33DAF464F1AB4931C4312F6FB9FFEA08331B0501687AB5358AB4BA7B995242F926D892CD2877F5B9A65C2BCE0B48EBC7CA1846C46DAF00B7D6CE002A389707F2
2023-01362 Refs.pdf	FCFDCFC62FC26681B80C5BFAC490FB77F07D80C6B141F0E7F0263EF57F71E71B7649714804F28C3D169AFC0DFB7ABFA690031D8BE4CBE16707BF5E842A67E149
2023-01462 Refs.pdf	4C25170393812 8C77FAF505537302F9E2C192BB5A7D06C8A766A70F2DB787C6632B5ED5F9BD684A6595E8F52CFF582DFF9F7037EEA4E41ACA6A9862D927583FD

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
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ELECTRONIC ACKNOWLEDGEMENT RECEIPT

APPLICATION #	RECEIPT DATE / TIME	ATTORNEY DOCKET #
17/567,594	**06/10/2024 03:34:32 PM Z ET**	**RALEP037D1C1C1C1C1**

Title of Invention

Enterprise Access Control and Accounting Allocation for Access Networks

Application Information

APPLICATION TYPE	Utility - Nonprovisional Application under 35 USC 111(a)	PATENT #	-
CONFIRMATION #	1081	FILED BY	Evan Gunderman
PATENT CENTER #	65902622	FILING DATE	01/03/2022
CUSTOMER #	106963	FIRST NAMED INVENTOR	Gregory G. Raleigh
CORRESPONDENCE ADDRESS	-	AUTHORIZED BY	Michael Farjami

Documents

TOTAL DOCUMENTS: 4

DOCUMENT	PAGES	DESCRIPTION	SIZE (KB)
RALEP037D1C1C1C1C1 IDS.pdf	5	Information Disclosure Statement (IDS) Form (SB08)	1253 KB
IPR2024-00945_EX1009 - Mobile Network Evolution.pdf	4	Non Patent Literature	2110 KB
IPR2024-00945_EX1010 - Patent Owners Preliminary Response.pdf	37	Non Patent Literature	2188 KB
IPR2024-00945_EX1012 - Worlds most wired airports.pdf	16	Non Patent Literature	17628 KB

Digest

DOCUMENT	MESSAGE DIGEST(SHA-512)
RALEP037D1C1C1C1C1 IDS.pdf	C42AA4B15DC3DC45537ED1211B1566530C2590E8CEDA0B5C 6A8273CEC773BCA9F193A6CAD7026B742C0DB4387783CA79 BD91ECE911BF764B585624E7A22FB336
IPR2024-00945_EX1009 - Mobile Network Evolution.pdf	18B2D207841D49F3DB446CB87D1D2C79D834CCA5225DE7EA 366B287B8AF920DEEAC11A06519333B40ACA2027886AE73DB D28F3DBB760E62178F5D8A6789C1332
IPR2024-00945_EX1010 - Patent Owners Preliminary Response.pdf	98E3CAB276215563A8A41C2E629814DAF1ED7B7AC9556A4F9 38BE09295BF2377D62BA3FCB6AB46DABE60A29E4CD360CE1 A02E05913094A402EE338405D00E1EC
IPR2024-00945_EX1012 - Worlds most wired airports.pdf	BCFF79921814CC596A880A31121314F70F92496FE20A9766CB 339EB35A4F3CDD4383921FB4E53C054552EE4010136F6316C5 1CF652C219329D5D68FBB29F793E

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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.

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	17567594
	Filing Date	2022-01-03
	First Named Inventor	RALEIGH, GREGORY
	Art Unit	2458
	Examiner Name	Naoreen, Nazia
	Attorney Docket Number	RALEP037D1C1C1C1C1

U.S.PATENTS Remove

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	5987611		1999-11-16	Freund; Gregor	
	2	8000715		2011-08-16	Melpignano; Diego et al.	
	3	7881267		2011-02-01	Crosswy; William C. et al.	

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U.S.PATENT APPLICATION PUBLICATIONS Remove

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
	1	20060039354		2006-02-23	Rao; Goutham P. et al.	
	2	20090207817		2009-08-20	Montemurro; Michael et al.	
	3	20090217065		2009-08-27	Araujo, JR.; Nelson S.	

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
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	Art Unit	2458
	Examiner Name	Naoreen, Nazia
	Attorney Docket Number	RALEP037D1C1C1C1C1

	4	20040123153		2004-06-24	Wright, Michael et al.	
	5	20060183461		2006-08-17	Pearce; Graham	

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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]
	1							☐

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NON-PATENT LITERATURE DOCUMENTS Remove

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]
	1	Mobile Network Evolution: GSM to UMTS, CONNINGTECH (May 8, 2008, 12:26 pm), https://conningtech.wordpress.com/2008/05/08/mobile-network-evolution-gsm-to-umts/ (last visited May 23, 2024)	☐
	2	Patent Owner's Preliminary Response, Samsung Electronics Co., Ltd. v. Headwater Research LLC, No. IPR2023-01462, Paper 6 (PTAB Jan. 4, 2024)	☐
	3	Elizabeth Woyke, World's most wired airports, NBC News (Mar. 11, 2008, 10:02 am), https://www.nbcnews.com/id/wbna23391922 (last visited May 15, 2024)	☐
	4	File History of IPR2024-00945; filed on June 7, 2024	☐

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	17567594
	Filing Date	2022-01-03
	First Named Inventor	RALEIGH, GREGORY
	Art Unit	2458
	Examiner Name	Naoreen, Nazia
	Attorney Docket Number	RALEP037D1C1C1C1C1

	5	IPR2024-00945: Petition for Inter Partes Review of United States Patent No.: 9,215,613, filed on June 7, 2024	☐

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EXAMINER SIGNATURE

Examiner Signature		Date Considered	

*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	17567594
	Filing Date	2022-01-03
	First Named Inventor	RALEIGH, GREGORY
	Art Unit	2458
	Examiner Name	Naoreen, Nazia
	Attorney Docket Number	RALEP037D1C1C1C1C1

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)	2024-06-10
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.**

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

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

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

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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.

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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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ELECTRONIC ACKNOWLEDGEMENT RECEIPT

APPLICATION #	RECEIPT DATE / TIME	ATTORNEY DOCKET #
17/567,594	**05/30/2024 05:27:23 PM Z ET**	**RALEP037D1C1C1C1C1**

Title of Invention

Enterprise Access Control and Accounting Allocation for Access Networks

Application Information

APPLICATION TYPE	Utility - Nonprovisional Application under 35 USC 111(a)	PATENT #	-
CONFIRMATION #	1081	FILED BY	Evan Gunderman
PATENT CENTER #	65741273	FILING DATE	01/03/2022
CUSTOMER #	106963	FIRST NAMED INVENTOR	Gregory G. Raleigh
CORRESPONDENCE ADDRESS	-	AUTHORIZED BY	Michael Farjami

Documents

TOTAL DOCUMENTS: 2

DOCUMENT		PAGES	DESCRIPTION	SIZE (KB)
RALEP037D1C1C1C1C1_Resp_to_Non_Final_OA_May_30_24.pdf		8	-	69 KB
RALEP037D1C1C1C1C1_Resp_to_Non_Final_OA_May_30_24-TRAN.LET.pdf	(1-1)	1	Transmittal Letter	34 KB
RALEP037D1C1C1C1C1_Resp_to_Non_Final_OA_May_30_24-A....pdf	(2-8)	7	Amendment/Request for Reconsideration-After Non-Final Rejection	47 KB

Digest

DOCUMENT	MESSAGE DIGEST(SHA-512)
RALEP037D1C1C1C1C1_Resp_to_Non_Final_OA_May_30_24.pdf	ECFF9E728C76F16E184C0EF420522369377979E4D6400A4F1619D198847BA33B6D075AEA2AB33F0FA8BAF052AA3CCEC8F25E4A60E1DF4F6121416B396F7AFFE7
RALEP037D1C1C1C1C1_Resp_to_Non_Final_OA_May_30_24-TRAN.LET.pdf	8CA57876D671A2087E29061E6E0A04927D74A3E5D75AA4FF0EA677E438E57BC9DD968C41B6E162DDEF7B9AA99D67DCB44E0B30A71E33D777091E440322493 7AC
RALEP037D1C1C1C1C1_Resp_to_Non_Final_OA_May_30_24-A....pdf	5480AC312CB98CECF16261E756740D7224098CFA648377DE9D6FB1AED565FA0175BAEEE8D28418EC12DF629FB5CF4F1E33CF695FF322B23D0F35E483ED0494F5

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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.

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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.

FARJAMI & FARJAMI LLP
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Mission Viejo, California 92691
tel: (949) 282-1000
fax: (949) 282-1002

ELECTRONIC TRANSMISSION COVER SHEET

Date: May 30, 2024

To: United States Patent and Trademark Office
Examiner: Naoreen, Nazia; Art Unit: 2458

Re: **Application Serial No.: 17/567,594**
Filing Date: 1/3/2022; First-Named Inventor: Raleigh
Attorney Docket No.: RALEP037D1C1C1C1C1

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 January 31, 2024.

Credit card payment in the amount of **$88.00** as the required One Month Extension 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 **50-0731**.

Thank you.

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ELECTRONIC PAYMENT RECEIPT

APPLICATION #	RECEIPT DATE / TIME	ATTORNEY DOCKET #
17/567,594	05/30/2024 05:27:23 PM Z ET	RALEP037D1C1C1C1C1

Title of Invention

Enterprise Access Control and Accounting Allocation for Access Networks

Application Information

APPLICATION TYPE	Utility - Nonprovisional Application under 35 USC 111(a)	PATENT #	-
CONFIRMATION #	1081	FILED BY	Evan Gunderman
PATENT CENTER #	65741273	AUTHORIZED BY	Michael Farjami
CUSTOMER #	106963	FILING DATE	01/03/2022
CORRESPONDENCE ADDRESS	-	FIRST NAMED INVENTOR	Gregory G. Raleigh

Payment Information

PAYMENT METHOD	PAYMENT TRANSACTION ID	PAYMENT AUTHORIZED BY
CARD / 5006	E20245TH30186629	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($)	QUANTITY	ITEM TOTAL($)
2251	EXTENSION FOR RESPONSE WITHIN FIRST MONTH	88.00	1	88.00
			TOTAL AMOUNT:	$88.00

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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

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New International Application Filed with the USPTO as a Receiving Office

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

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: **Raleigh et al.** Application Serial No.: **17/567,594** Filed: **1/3/2022** Title: **Enterprise Access Control and Accounting Allocation for Access Networks**	Group Art Unit: 2458 Examiner: Naoreen, Nazia

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 January 31, 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.

In the Claims:

Claim 1 (Cancelled)

Claim 2 (New): A method of operating a wireless end-user device, the method comprising:

providing first access policy information indicative of an execution environment policy;

providing second access policy information indicative of a security policy;

based on the first access policy information indicative of the execution environment policy:

allowing a first set of device application instances to run only in a secure application environment on the wireless end-user device;

based on the second access policy information indicative of the security policy:

establishing a first secure tunnel to a network tunnel endpoint; and

directing all network data communications to and from the first set of device application instances, which are running only in the secure application environment, through the first secure tunnel.

Claim 3 (New): The method of claim 2, wherein the security policy defines a first configuration indicating that a second set of device application instances are not allowed to use the first secure tunnel.

Claim 4 (New): The method of claim 3, wherein the first set of device application instances are used on behalf of an enterprise and the second set of device application instances are personal to a user of the wireless end-user device.

Claim 5 (New): The method of claim 4, further comprising:

associating the first set of device application instances with the enterprise.

Claim 6 (New): The method of claim 4, further comprising:

associating the second set of device application instances as being personal to the user.

Claim 7 (New): The method of claim 2, wherein the first secure tunnel forms a portion of a virtual private network, VPN.

Claim 8 (New): A wireless end-user device comprising:

a processor configured to:

provide first access policy information indicative of an execution environment policy;

provide second access policy information indicative of a security policy;

based on the first access policy information indicative of the execution environment policy:

allow a first set of device application instances to run only in a secure application environment on the wireless end-user device;

based on the second access policy information indicative of the security policy:

establish a first secure tunnel to a network tunnel endpoint; and

direct all network data communications to and from the first set of device application instances, which are running only in the secure application environment, through the first secure tunnel.

Claim 9 (New): The wireless end-user device of claim 8, wherein the security policy defines a first configuration indicating that a second set of device application instances are not allowed to use the first secure tunnel.

Claim 10 (New): The wireless end-user device of claim 9, wherein the first set of device application instances are used on behalf of an enterprise and the second set of device application instances are personal to a user of the wireless end-user device.

Claim 11 (New): The wireless end-user device of claim 10, wherein the processor is further configured to:

associate the first set of device application instances with the enterprise.

Claim 12 (New): The wireless end-user device of claim 10, wherein the processor is further configured to:

associate the second set of device application instances as being personal to the user.

Claim 13 (New): The wireless end-user device of claim 8, wherein the first secure tunnel forms a portion of a virtual private network, VPN.

REMARKS

The *Non-Final* Office Action, dated January 31, 2024 ("Office Action"), rejected claim 1. By the present response, Applicant cancels claim 1, and adds new claims 2-13. No new matter is added. Thus, after the present response, claims 2-13 remain pending in the present application. Applicant respectfully requests allowance of claims 2-13 in view of the following remarks.

A. Statutory Double Patenting

The Office Action rejected claim 1 of the present application, under statutory double patenting. By the present amendment, Applicant has cancelled claim 1. Therefore, the rejection of claim 1 is rendered moot.

B. Non-Statutory Obviousness-Type Double Patenting

The Office Action rejected claim 1 of the present application, under non-statutory obviousness-type double patenting. By the present amendment, Applicant has cancelled claim 1. Therefore, the rejection of claim 1 is rendered moot.

C. 35 U.S.C. § 101

The Office Action rejected claim 1 of the present application, under 35 U.S.C. § 101. By the present amendment, Applicant has cancelled claim 1. Therefore, the rejection of claim 1 is rendered moot.

D. New Claims 2-13

By the present amendment, Applicant has added new independent claim 2, which recites

"A method of operating a wireless end-user device," where the method comprises:

> providing first access policy information indicative of an execution environment policy;
>
> providing second access policy information indicative of a security policy;
>
> based on the first access policy information indicative of the execution environment policy:
>
> > allowing a first set of device application instances to run only in a secure application environment on the wireless end-user device;
>
> based on the second access policy information indicative of the security policy:
>
> > establishing a first secure tunnel to a network tunnel endpoint; and
> >
> > directing all network data communications to and from the first set of device application instances, which are running only in the secure application environment, through the first secure tunnel.

New independent claim 8 also recites similar limitations. Applicant respectfully submits that new independent claims 2 and 8 should be allowed at least for one or more reasons the Examiner found claims of parent application serial no, 15/287,603, now patent no. 10,080,250, allowable. As such, claims 3-7 and 9-13 depending from new independent claims 2 and 8, respectively, should also be allowed.

E. Conclusion

Based on the foregoing reasons, Applicant respectfully requests allowance of claims 2-13 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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Telephone: (949) 282-1000
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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.

May 30, 2024
Date

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

PTO/SB/06 (09-11)
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PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875	Application or Docket Number 17/567,594	Filing Date 01/03/2022	☐ 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)		(Column 2)	(Column 3)			
AMENDMENT	05/30/2024	CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA		RATE ($)	ADDITIONAL FEE ($)
	Total (37 CFR 1.16(i))	* 12	Minus	** 36	= 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)		(Column 2)	(Column 3)			
AMENDMENT		CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA		RATE ($)	ADDITIONAL FEE ($)
	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 Assistant
** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".	/AMANDA N FORD/
*** 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.**

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

UNITED STATES
PATENT AND TRADEMARK OFFICE

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ELECTRONIC ACKNOWLEDGEMENT RECEIPT

APPLICATION #	RECEIPT DATE / TIME	ATTORNEY DOCKET #
17/567,594	**02/08/2024 08:26:11 PM Z ET**	**RALEP037D1C1C1C1C1**

Title of Invention

Enterprise Access Control and Accounting Allocation for Access Networks

Application Information

APPLICATION TYPE	Utility - Nonprovisional Application under 35 USC 111(a)	PATENT #	-
CONFIRMATION #	1081	FILED BY	Evan Gunderman
PATENT CENTER #	64266839	FILING DATE	01/03/2022
CUSTOMER #	106963	FIRST NAMED INVENTOR	Gregory G. Raleigh
CORRESPONDENCE ADDRESS	-	AUTHORIZED BY	Michael Farjami

Documents

TOTAL DOCUMENTS: 2

DOCUMENT		PAGES	DESCRIPTION	SIZE (KB)
RALEP037D1C1C1C1C1_IDS_Feb_8_24.pdf		4	-	712 KB
RALEP037D1C1C1C1C1_IDS_Feb_8_24-TRAN.LET.pdf	(1-1)	1	Transmittal Letter	27 KB
RALEP037D1C1C1C1C1_IDS_Feb_8_24-IDS.pdf	(2-4)	3	Information Disclosure Statement (IDS) Form (SB08)	681 KB

Digest

DOCUMENT	MESSAGE DIGEST(SHA-512)
RALEP037D1C1C1C1C1_IDS_	FF28528C1B3FD32F57BB0EB734F5E85BD7672CF0DAF37C09

Feb_8_24.pdf	C65E83D672F20BFD3F5889A236FDF30E5AB24DB0CD9B82082B6C845308AEA29F21416602B0762558
RALEP037D1C1C1C1C1_IDS_Feb_8_24-TRAN.LET.pdf	8ABE1EC26C0C50211B1B86B1CA6605E1F6620C1A1D6693C967C2075367D69E783B3FD377C87ADCDE9DAF3E4F949C131889F2BEEDF7ECCA1C20FC9933B8ABA0E0
RALEP037D1C1C1C1C1_IDS_Feb_8_24-IDS.pdf	C8C3BB7F0EC9768D8042E3B675EB00047FA4342783C82C50A4320203F34D7E9E896FFC9D385D92A84DC1F482468DDAEA76A2A79E582C26C0D077A48F65806E1F

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.

FARJAMI & FARJAMI LLP
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ELECTRONIC TRANSMISSION COVER SHEET

Date: February 8, 2024

To: United States Patent and Trademark Office
Examiner: Naoreen, Nazia; Art Unit: 2458

Re: **Application Serial No.: 17/567,594**
Filing Date: 1/3/2022; First-Named Inventor: Raleigh
Attorney Docket No.: RALEP037D1C1C1C1C1

From: Farjami & Farjami LLP

Number of pages including the cover sheet: 4

Message:

Enclosed, please find the Information Disclosure Statement and Form PTO-1449.

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

PTO/SB/08a (01-22)
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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	17567594
	Filing Date	2022-01-03
	First Named Inventor	RALEIGH, GREGORY
	Art Unit	
	Examiner Name	
	Attorney Docket Number	RALEP037D1C1C1C1C1

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	8180375		2012-05-15	Awad; Mina	
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
	1	20090293378		2009-12-03	Benson; Christopher	
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]
	1							☐
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.	T[5]

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (**Not for submission under 37 CFR 1.99)**		
	Application Number	17567594
	Filing Date	2022-01-03
	First Named Inventor	RALEIGH, GREGORY
	Art Unit	
	Examiner Name	
	Attorney Docket Number	RALEP037D1C1C1C1C1

	1		☐

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

EXAMINER SIGNATURE

Examiner Signature		Date Considered	

*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	17567594
	Filing Date	2022-01-03
	First Named Inventor	RALEIGH, GREGORY
	Art Unit	
	Examiner Name	
	Attorney Docket Number	RALEP037D1C1C1C1C1

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)	2024-02-08
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.**

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
17/567,594	01/03/2022	Gregory G. Raleigh	RALEP037D1C1C1C1C1	1081

106963 7590 01/31/2024

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

EXAMINER	
NAOREEN, NAZIA	

ART UNIT	PAPER NUMBER
2458	

NOTIFICATION DATE	DELIVERY MODE
01/31/2024	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

Office Action Summary	Application No. 17/567,594	Applicant(s) Raleigh et al.	
	Examiner NAZIA NAOREEN	Art Unit 2458	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 01/03/2022.

☐ 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) 1 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) 1 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 01/03/2022 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 of Attachment(s) 2) Information Disclosure Statement(s) (PTO/SB/08a and/or PTO/SB/08b) Paper No(s)/Mail Date: 04/14/2022, 05/23/2023, 07/07/2023, 07/26/2023, 10/06/2023, 10/19/2023, 11/08/2023, 01/09/2024

DETAILED ACTION

Status of Claims:

1. Claim 1 is pending.

Notice of Pre-AIA or AIA Status

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

Information Disclosure Statement

3. The information disclosure statement (IDS) was submitted on 04/14/2022, 05/23/2023, 07/07/2023, 07/26/2023, 10/06/2023, 10/19/2023, 11/08/2023, 01/09/2024. The submission is in compliance with the provisions of 37 CFR 1.97. Accordingly, the information disclosure statement is being considered by the examiner.

Statutory Double Patenting

4. 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).

A statutory type (35 U.S.C. 101) double patenting rejection can be overcome by canceling or amending the claims that are directed to the same invention so they are no longer coextensive in scope. The filing of a terminal disclaimer cannot overcome a double patenting rejection based upon 35 U.S.C. 101.

5. Claim 1 is rejected under 35 U.S.C. 101 as claiming the same invention as that of claim 1 of prior U.S. Patent No. 10,536,983. This is a statutory double patenting rejection.

Nonstatutory Double Patenting

6. 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 conflicting claims are not identical, but at least one examined application claim is not patentably distinct from the reference claim(s) because the examined application claim is either anticipated by, or would have been obvious over, the reference claim(s). See, e.g., *In re Berg*, 140 F.3d 1428, 46 USPQ2d 1226 (Fed. Cir. 1998); *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

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

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

The USPTO Internet website contains terminal disclaimer forms which may be used. Please visit www.uspto.gov/patent/patents-forms. The actual filing date of the application in which the form is filed

determines what form (e.g., PTO/SB/25, PTO/SB/26, PTO/AIA/25, or PTO/AIA/26) should be used. A web-based eTerminal Disclaimer may be filled out completely online using web-screens. An eTerminal Disclaimer that meets all requirements is auto-processed and approved immediately upon submission. For more information about eTerminal Disclaimers, refer to www.uspto.gov/patents/apply/applying-online/eterminal-disclaimer.

7. Claim 1 is rejected on the ground of nonstatutory double patenting as being unpatentable over claim 1 of U.S. Patent No. 11,219,074. Although the claims at issue are not identical, they are not patentably distinct from each other because **the patent anticipates the invention claimed in the pending application**.

Pending Application (17/567,594)	**U.S. Patent (11,219,074)**
1. A network system for providing network access service notification messages containing information about a network access activity of an end-user device, the network system comprising:	1. A network system for providing network access service notification messages containing information about a network access activity of each of a plurality of wireless end-user devices, the network system comprising:
a first service design center configured to:	a first service design center configured to:
	provide a respective secure user interface for each of a plurality of enterprise network administrators, the respective secure user interface allowing each enterprise network administrator to define a respective device group list, each device group list identifying device credentials for a plurality of the wireless end-user devices associated with a given enterprise,
obtain a first network access notification message policy comprising a first network access trigger condition and an associated first network access notification message, the first network access	obtain from any of the plurality of enterprise network administrators through the respective secure user interface a first network access notification message policy comprising a first

trigger condition comprising one or more current or requested end-user device network access activities, the first network access notification message comprising notification information to be presented to a user through a user interface, receive a trigger condition indication from a network element, associate the trigger condition indication with the first network access notification message, and present the notification information to the user through the user interface;	network access trigger condition and an associated first network access notification message to be applied to a given one or more of the wireless end-user devices in the respective device group list for that administrator, the first network access trigger condition comprising one or more current or requested wireless end-user device network access activities, the first network access notification message comprising notification information to be presented to that administrator through the respective secure user interface, receive a trigger condition indication from a network element, associate the trigger condition indication with the first network access notification message, and present the notification information to that administrator through the respective secure user interface;
a network provisioning instruction translator configured to:	a network provisioning instruction translator configured to:
receive, from the first service design center, the first network access trigger condition, and determine, based on the first network access	receive, from the first service design center, the first network access trigger condition, and

trigger condition, one or more network access trigger identification instructions;	determine, based on the first network access trigger condition, one or more network access trigger identification instructions; and
a network provisioning system configured to communicate the one or more network access trigger identification instructions to one or more network elements responsible for monitoring the service usage, the one or more network elements responsible for monitoring the service usage configured to:	a network provisioning system configured to communicate the one or more network access trigger identification instructions to one or more network elements responsible for monitoring wireless service usage of the plurality of wireless end-user devices, the one or more network elements responsible for monitoring the wireless service usage configured to:
execute the one or more network access trigger identification instructions to identify when the first network access trigger condition occurs, and send the trigger condition indication to the first service design center.	execute the one or more network access trigger identification instructions to identify when the first network access trigger condition occurs for any device of the given one or more wireless end user devices in the respective device group list, and send the trigger condition indication to the first service design center.

Claim Rejections - 35 USC § 101

8. 35 U.S.C. 101 reads as follows:

> Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

9. As per claim 1, the language is drawn to a computer program which is **neither executed by a computer, nor stored** on a physical structure.

Claim 1 is directed to a first service design center, a network provisioning instruction translator, and network provisioning system which contains no physical structure such as an apparatus or any hardware implementations. The specification states: “The service design centers (e.g., carrier service

design center 190 and enterprise service design center 194) are shown in Figure 1 and various other figures as separate network elements in order to more clearly define and discuss the functions of the service design centers. In some embodiments, enterprise service design center 194 is implemented in various other network elements (e.g., in enterprise network management apparatus, such as management functions of secure enterprise mobile services gateway server 172 or other enterprise network management apparatus). In some embodiments, enterprise service design center 194 is implemented as a securely partitioned and managed device group interface to a subset of the provisioning capabilities of carrier network service design center 190. In some embodiments, enterprise service design center 194 is implemented as a securely partitioned and managed device group interface to a subset of the provisioning capabilities of a cloud-based secure enterprise mobile services network that is run by a centralized enterprise services provider such as an ASP or MVNO. As would be appreciated by one of ordinary skill in the art in view of the various embodiments described herein, enterprise service design center 194 can be implemented using various network and software/hardware architectures while providing for secure and controlled access as described herein." (¶74).

Based on ¶74, the claimed elements can be only software embodiments which do not necessarily require any hardware implementations. Since none of the claimed elements of the claim are necessarily hardware elements rather than the software embodiments, at least one embodiment of the claimed invention includes the apparatus existing as software per se. Software per se is not included in any of the four statutory classes. See MPEP §2106 (citing Gottschalk v. Benson, 409 US 63, 72 (1972)). As result, claim 1 is directed towards non-statutory patent matter.

Pertinent Prior Art

10. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

- US 9288276: Application Services Infrastructure For Next Generation Networks Including A Notification Capability And Related Methods And Computer Program Products

Conclusion

11. Any inquiry concerning this communication or earlier communications from the examiner should be directed to NAZIA NAOREEN whose telephone number is (571)270-7282. The examiner can normally be reached M-F: 9:00 - 6:00.

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, Kevin Bates can be reached on 571-272-3980. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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

/NAZIA NAOREEN/
Primary Examiner, Art Unit 2458

Notice of References Cited	Application/Control No. 17/567,594	Applicant(s)/Patent Under Reexamination Raleigh et al.	
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*	A	US-9288276-B2	2016-03-15	Adamczyk; Maria	H04L67/54	1/1
	B					
	C					
	D					
	E					
	F					
	G					
	H					
	I					
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	K					
	L					
	M					

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*		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	

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

Index of Claims	Application/Control No.	Applicant(s)/Patent Under Reexamination
	17/567,594	Raleigh et al.
	Examiner	**Art Unit**
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✓	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	01/24/2024								
	1	✓								

Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
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CPC - Searched*		
Symbol	**Date**	**Examiner**
H04W76/12	01/24/2024	NN
H04L12/1457	01/24/2024	NN
H04L12/4633	01/24/2024	NN
H04L41/0823	01/24/2024	NN
H04L67/34	01/24/2024	NN
H04M15/8033	01/24/2024	NN

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**
Inventor and Assignee	01/24/2024	NN
PE2ESEARCH (US-PGPUB, USPAT, USOCR, FIT, FPRS, EPO, JPO, DERWENT, IBM TDB)	01/24/2024	NN
Classification and Double Patenting	01/24/2024	NN
IP.com search, Google Scholar search	01/24/2024	NN

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

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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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First Named Inventor	RALEIGH, GREGORY
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Examiner Name	not yet assigned
Attorney Docket Number	RALELP037D1C1C1C1C1

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The fee set forth in 37 CFR 1.17 (p) has been 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	/James E. Harris/	Date (YYYY-MM-DD)	2022-04-14
Name/Print	James E. Harris	Registration Number	40013

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