

PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT6369737

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
RICHARD JOHN HUGHES	09/30/2016
JANE ELIZABETH NORDHOLT	09/30/2016
CHARLES GLEN PETERSON	10/17/2016
KUSH T. TYAGI	10/14/2016
CHRISTOPHER C. WIPF	10/14/2016
RAYMOND THORSON NEWELL	10/17/2016
KEVIN P. MCCABE	08/11/2016
NICHOLAS DALLMANN	11/16/2016
RECEIVING PARTY DATA	
Name:	LOS ALAMOS NATIONAL SECURITY, LLC
Street Address:	105 CENTRAL PARK SQUARE
City:	LOS ALAMOS
State/Country:	NEW MEXICO
Postal Code:	87544
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	16799116
CORRESPONDENCE DATA	
Fax Number:	(603)433-6372
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i>	
Phone:	603-433-6300
Email:	vborry@pierceatwood.com
Correspondent Name:	CHRISTOPHER A. BAXTER
Address Line 1:	100 SUMMER STREET
Address Line 2:	SUITE 2250
Address Line 4:	BOSTON, MASSACHUSETTS 02110
ATTORNEY DOCKET NUMBER:	LAN-012US03
NAME OF SUBMITTER:	CHRISTOPHER A. BAXTER
SIGNATURE:	/Christopher A. Baxter/

PATENT

DATE SIGNED:	10/27/2020
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Total Attachments: 10

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ASSIGNMENT

WHEREAS, the undersigned, to wit:

- Richard John HUGHES residing at 1193 San Ildefonso, Los Alamos, New Mexico 87544;
- Jane Elizabeth NORDHOLT residing at 1193 San Ildefonso, Los Alamos, New Mexico 87544;
- Charles Glen PETERSON residing at 1670 Solana, Los Alamos, New Mexico 87544;
- Kush T. TYAGI at P.O. Box 1663, MS A187, Los Alamos National Laboratory, Los Alamos, New Mexico 87545;
- Christopher C. WIPF at P.O. Box 1663, Los Alamos National Laboratory, Los Alamos, New Mexico 87545;
- Raymond Thorson NEWELL residing at 1944 Thomas Avenue, Santa Fe, New Mexico 87505;
- Kevin P. MCCABE at P.O. Box 1663, MS A187, Los Alamos National Laboratory, Los Alamos, New Mexico 87545;
- Nicholas DALLMANN at P.O. Box 1663, MS A187, Los Alamos National Laboratory, Los Alamos, New Mexico 87545

(hereinafter collectively ASSIGNORS), have made a certain new and useful invention as set forth in an application for United States Letters Patent, entitled:

“STREAMING AUTHENTICATION AND MULTI-LEVEL SECURITY FOR COMMUNICATIONS NETWORKS USING QUANTUM CRYPTOGRAPHY”

- (a) which is being filed herewith in the United States Patent and Trademark Office;
- (b) which was filed as U.S. Patent Application No. 15/026024
on March 30, 2016 ;

AND WHEREAS, Los Alamos National Security, LLC (hereinafter ASSIGNEE), a corporation organized and existing under the laws of the State of Delaware, and having its principal place of business at 105 Central Park Square, Los Alamos, New Mexico 87544, is desirous of acquiring the entire right, title, and interest in and to said invention and any and all patents that may be obtained therefor, and in and to said application and any and all patents that may issue therefrom;

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, ASSIGNORS do hereby sell, assign, transfer, and set over unto said ASSIGNEE, its successors, assigns, and legal representatives, all right, title, and interest in and to said invention throughout the world, and any and all patents of the United States and foreign countries that may be obtained therefor, including the right to sue for past infringement and obtain past damages, and in and to said application, including any and all non-provisionals, continuations, continuations-in-part, divisionals, reissues, re-examinations, substitutions, and extensions thereof, and any and all patents of the United States and foreign countries that may issue therefrom, such right, title, and interest including the right to file

applications and obtain patents, utility models, industrial models, and designs for said invention in the name of said ASSIGNEE, its successors, assigns, and legal representatives, throughout the world, including all rights of priority, all rights to publish cautionary notices reserving ownership of said invention, and all rights to register said invention in appropriate registries;

ASSIGNORS also do hereby covenant that they have the full right to convey the entire right, title, and interest herein assigned, and that they have not and will not execute any agreement in conflict herewith;

ASSIGNORS also do hereby authorize and request the Commissioner of Patents and Trademarks to issue any and all Letters Patent of the United States on said invention or resulting from said application, including any continuations, continuations-in-part, divisions, reissues, re-examinations, substitutions, and extensions thereof, to said ASSIGNEE, its successors, assigns, and legal representatives as the ASSIGNEE of the entire right, title, and interest herein assigned;

ASSIGNORS also do hereby agree to, at any time, upon request, without further or additional consideration but at the expense of said ASSIGNEE, its successors, assigns, or legal representatives, execute and deliver any and all papers, make all rightful oaths, and do all lawful acts that may be necessary or desirable to perfect the entire right, title, and interest in said application, including any and all continuations, continuations-in-part, divisionals, reissues, re-examinations, substitutions, and extensions thereof, and any and all patents of the United States and foreign countries that may issue therefrom said ASSIGNEE, its successors, assigns, and legal representatives, and generally do everything possible to vest the entire right, title, and interest herein assigned in said ASSIGNEE, its successors, assigns, and legal representatives;

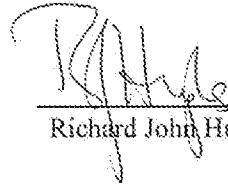
ASSIGNORS also do hereby grant the following individuals the power to insert on this Assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document:

WILMER CUTLER PICKERING HALE AND DORR LLP

All practitioners at Customer Number 23483.

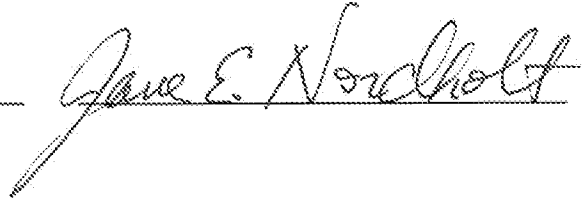
This ASSIGNMENT is effective as of March 30, 2016

30 September 2016
Date


Richard John Hughes

Witness:

30 Sept. 2016
Date



30 Sept 2016
Date

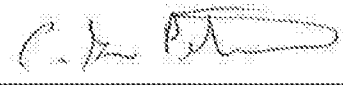
Jane Elizabeth Nordholt
Jane Elizabeth Nordholt

Witness:
30 September 2016
Date

[Signature]

10-17-16

Date



Charles Glen Peterson

Witness:

10/17/16

Date



10/14/16

Date



Kush T. Tyagi

Witness:

Date

October 14, 2016

Date


Christopher C. Wipf

Christopher C. Wipf

Witness:

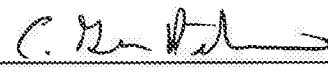
Date


Oct 17th 2016
Date


Raymond Thorsen Newell

Witness:

10-17-16
Date



C. Newell

8/11/2016 
Date Kevin P. McCabe

Witness:

8/11/2016 
Date

11/16/2016
Date


Nicholas Dallmann

Witness:

11/16/2016
Date

