

PATENT ASSIGNMENT COVER SHEET

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 Stylesheet Version v1.2

EPAS ID: PAT7024581

SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	ASSIGNMENT	
CONVEYING PARTY DATA		
	Name	Execution Date
	LOS ALAMOS NATIONAL SECURITY, LLC	10/31/2018
RECEIVING PARTY DATA		
Name:	TRIAD NATIONAL SECURITY, LLC	
Street Address:	LOS ALAMOS NATIONAL LABORATORY	
Internal Address:	LC/IP, MS A 187	
City:	LOS ALAMOS	
State/Country:	NEW MEXICO	
Postal Code:	87545	
PROPERTY NUMBERS Total: 1		
	Property Type	Number
	Application Number:	16866336
CORRESPONDENCE DATA		
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<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>		
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Email:	grace.rippy@alston.com	
Correspondent Name:	MIRANDA M. SOOTER	
Address Line 1:	101 S. TRYON STREET	
Address Line 4:	CHARLOTTE, NORTH CAROLINA 28280	
ATTORNEY DOCKET NUMBER:	068177/567201	
NAME OF SUBMITTER:	MIRANDA M. SOOTER	
SIGNATURE:	/Miranda M. Sooter/	
DATE SIGNED:	11/15/2021	
Total Attachments: 6		
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ASSIGNMENT OF PATENTS AND PATENT APPLICATIONS

This Assignment, made the first day of November, 2018 (hereinafter the "Effective Date"), is entered into by and between **Los Alamos National Security, LLC**, a corporation incorporated in the State of Delaware with principal offices located at Los Alamos National Laboratory, LC/IP, MS A187, Los Alamos, New Mexico 87545, which together with its successors, assigns, and legal representatives is referred to hereinafter as "ASSIGNOR," and **Triad National Security, LLC**, a corporation incorporated in the State of Delaware with principal offices located at Los Alamos National Laboratory, LC/IP, MS A187, Los Alamos, New Mexico 87545, which together with its successors, assigns, and legal representatives is referred to hereinafter as "ASSIGNEE,"

WHEREAS ASSIGNOR owns certain rights to inventions disclosed in the following issued U.S. patents and pending patent applications designated by their patent numbers and application numbers in parentheses if issued, or application numbers alone if not issued (hereinafter referred to as the PATENTS), as well as to the PATENTS themselves:

<u>U.S. Patent or Application No.:</u>	<u>DOE Reference No.:</u>	<u>Attorney Docket No.:</u>
9,560,065 (14/382,992)	S-129,387.002	1620.0003
9,825,979 (15/419,673)	S-129,387.009	1620.0003CON
15/809,297	S-129,387.012	1620.0003CON2
9,374,380 (13/826,736)	S-133,020.000	1620.0004
15/165,036	S-133,020.001	1620.0004CON
9,038,180 (13/826,995)	S-133,032.000	1620.0005
9,699,206 (14/609,836)	S-133,258.000	1620.0005CON
10,015,183 (15/637,475)	S-133,258.001	1620.0005CON2
16/002,870	S-133,258.002	1620.0005CON3
14/383,024	S-133,046.001	1620.0006
14/773,405	S-121,709.002	1620.0007
14/770,894	S-133,064.002	1620.0008
9,152,888 (14/026,730)	S-129,185.001	1620.0009
9,152,881 (14/026,295)	S-129,622.001	1620.0010
9,092,692 (14/026,812)	S-129,623.001	1620.0011
9,477,901 (14/805,540)	S-133,311.000	1620.0011CON
14/339,760	S-133,043.001	1620.0013

9,708,080 (14/745,698)	S-133,133.001	1620.0017
10,059,468 (15/612,534)	S-133,133.002	1620.0017CON
9,853,353 (14/745,763)	S-133,180.001	1620.0018
9,981,758 (14/745,810)	S-133,181.001	1620.0019
15/966,430	S-133,181.002	1620.0019CON
14/745,875	S-133,182.001	1620.0020
9,760,382 (14/745,941)	S-133,183.001	1620.0021
15/440,836	S-133,183.002	1620.0021CON
9,478,855 (14/745,996)	S-133,184.001	1620.0022
9,768,857 (15/292,384)	S-133,184.002	1620.0022CON
9,878,805 (14/746,046)	S-133,185.001	1620.0023
15/872,630	S-133,185.002	1620.0023CON
15/940,714	S-133,540.000	1620.0023CONCIP
9,588,234 (14/258,481)	S-133,051.001	1620.0024
9,684,951 (14/668,900)	S-133,188.001	1620.0025
9,330,878 (14/736,973)	S-133,101.001	1620.0026
15/259,086	S-133,256.003	1620.0027CIPCON
10,015,175 (15/099,898)	S-133,191.001	1620.0029
16/014,026	S-133,191.002	1620.0029CON
15/098,422	S-133,202.001	1620.0030
9,686,844 (15/088,366)	S-133,150.001	1620.0031
10,015,259 (15/259,121)	S-133,265.002	1620.0032CON
16/014,084	S-133,265.003	1620.0032CON2
15/868,517	S-133,568.000	1620.0032CONCIP
9,946,931 (15/133,387)	S-133,276.001	1620.0033
9,858,502 (15/134,437)	S-133,374.000	1620.0033CIP

15/259,152	S-133,279.002	1620.0034CON
15/139,484	S-133,255.001	1620.0035
15/188,152	S-133,297.001	1620.0039
9,837,564 (15/274,152)	S-133,419.000	1620.0039CIP
15/232,857	S-133,315.001	1620.0043
9,368,311 (14/870,072)	S-133,139.001	1620.0044
15/220,497	S-133,333.001	1620.0045
15/278,273	S-133,317.001	1620.0046
15/355,142	S-133,304.001	1620.0047
15/417,254	S-133,350.001	1620.0048
15/798,171	S-133,383.001	1620.0049
15/640,717	S-133,384.001	1620.0050
15/709,763	S-133,366.001	1620.0051
15/478,369	S-133,423.002	1620.0054
29/572,474	S-133,423.001	1620.0055
15/791,297	S-133,430.001	1620.0057
15/703,979	S-133,453.001	1620.0058
15/934,163	S-133,440.001	1620.0059
15/828,933	S-133,464.001	1620.0061
15/818,893	S-133,462.001	1620.0062
15/818,809	S-133,452.001 and S-133,541.000	1620.0063
15/921,800	S-133,491.001	1620.0065
16/012,228	S-133,486.001	1620.0067
16/103,452	S-133,488.001	1620.0068
15/841,408	S-133,475.001	1620.0069

15/905,019	S-133,487.001	1620.0070
15/986,796	S-133,505.001	1620.0071
15/997,002	S-133,533.001	1620.0072
15/997,163	S-133,529.001	1620.0073
16/128,123	S-133,556.001	1620.0074
15/940,816	S-133,540.001	1620.0075
16/043,345	S-133,570.001	1620.0077
16/049,942	S-133,572.001	1620.0078
62/598,188	S-133,563.000	1620.0080P
62/721,031	S-133,565.000	1620.0081P
62/595,714	S-133,580.000	1620.0082P
15/854,384	S-133,474.001	1620.0083
62/730,525	S-133,586.000	1620.0086P
62/715,686	S-133,588.000	1620.0087P
62/656,510	S-133,548.000	1620.0088P
62/676,244	S-133,640.000	1620.0089P
62/688,264	S-133,622.000	1620.0091P
62/730,443	S-133,666.000	1620.0094P

WHEREAS ASSIGNEE is desirous of acquiring the entire rights, titles and interests in, to, and under said PATENTS and in, to, and under Letters Patent or similar legal protection to be obtained therefor in the United States and in any and all foreign countries.

NOW, THEREFORE, for good and valuable consideration as set forth in separate agreements between ASSIGNOR and ASSIGNEE, the receipt of which is hereby acknowledged, ASSIGNOR and ASSIGNEE agree as follows:

ASSIGNOR does hereby sell, assign, and transfer to ASSIGNEE, and ASSIGNEE accepts, all ASSIGNOR's rights in and to said PATENTS in the United States including, without limitation, any continuation, divisional, reissue, reexamination, continuation-in-part, extension, and/or post-grant review thereof; including the right to claim priority to any of the PATENTS, and the right to file any subsequent patent application claiming priority to any of the PATENTS; and including all causes of action and enforcement rights for the PATENTS, including all rights to pursue

damages, injunctive relief, and other remedies for past and future infringement of the PATENTS.

ASSIGNOR does hereby sell, assign, and transfer to ASSIGNEE, and ASSIGNEE accepts, all its rights outside the United States in and to said PATENTS, including, without limitation, any continuation, divisional, reissue, reexamination, continuation-in-part, extension, and/or post-grant review thereof; including the right to claim priority to any of the PATENTS, and the right to file any subsequent patent application claiming priority to any of the PATENTS; and including all causes of action and enforcement rights for the PATENTS, including all rights to pursue damages, injunctive relief, and other remedies for past and future infringement of the PATENTS.

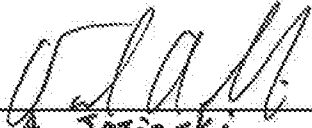
ASSIGNOR hereby binds itself, its legal representatives, and assigns to execute without further consideration any and all applications, petitions, oaths, and Assignments or other papers and instruments that may be necessary in order to perfect and carry into full force and effect the sale, Assignment, and transfer hereby made or intended to be made, and generally do everything possible to aid ASSIGNEE to obtain and enforce proper patent protection for said PATENTS in all countries, all without further compensation but at the expense of ASSIGNEE.

ASSIGNOR hereby covenants with ASSIGNEE that no Assignment, grant, mortgage, license, or other agreement affecting the rights and property herein conveyed has been made to others by the undersigned and that ASSIGNOR has full right to convey the entire rights, titles, and interests herein sold, assigned, transferred and set over.

Nothing in this Assignment shall alter the rights and obligations of ASSIGNOR and ASSIGNEE pursuant to separate agreements therebetween.

IN WITNESS WHEREOF, representing and on behalf of Los Alamos National Security, LLC, I have executed this Assignment below.

Please Sign and Date Below:

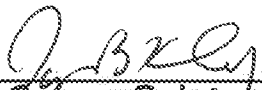


David A. Sosinski
General Counsel
Los Alamos National Security, LLC

Date: 10/31/18

IN WITNESS WHEREOF, representing and on behalf of Triad National Security, LLC, I have executed this Assignment below.

Please Sign and Date Below:



Ryan B. Kennedy
Chief Intellectual Property Counsel
Triad National Security, LLC

Date: 10/31/18