PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT8178433

SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	ASSIGNMENT	

CONVEYING PARTY DATA

Name	Execution Date
KEDAR G. SHAH	05/30/2023
SATINDERPALL S. PANNU	09/18/2023
TERRI L. DELIMA	05/01/2023

RECEIVING PARTY DATA

Name:	LAWRENCE LIVERMORE NATIONAL SECURITY, LLC	
Street Address:	7000 EAST AVENUE	
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State/Country:	CALIFORNIA	
Postal Code:	94550	

PROPERTY NUMBERS Total: 2

Property Type	Number
Application Number:	61476615
Patent Number:	9048012

CORRESPONDENCE DATA

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Correspondent Name: LAWRENCE LIVERMORE NATIONAL LABORATORY

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Address Line 4: LIVERMORE, CALIFORNIA 94550

ATTORNEY DOCKET NUMBER:	IL-12382
NAME OF SUBMITTER:	PAM DISNEY
SIGNATURE:	/PAM DISNEY/
DATE SIGNED:	09/20/2023

Total Attachments: 3

source=IL-12382 Assignment-Shah#page1.tif source=Assignment S. Pannu#page1.tif source=IL-12382 Assignment-DeLima#page1.tif

ASSIGNMENT

LLNL Record of Invention Case No. IL-	123 8 2 , ent	itled:		
METHOD FOR FABRICATING HERMETIC HIGH-DENSITY ELECTRICAL FEEDTHROUGHS				
For good and valuable consideration, the n	eccipt of which is here	by acknowledged, ASS	(GNOR(s)	
1. Kedar G. Shah	2.	Santinderpall S. Panna	3	
3. Terri L. Delima	4.			
hereby sells, assigns, transfers, and convitimited liability company, having a place assigns and legal representative of the AS all inventions and discoveries found in the	of business at 7000 SIGNEE all of its righ	East Avenue, Livermont, title and interest thro	re, CA 94550 and the successors, unbout the world in and to any and	
 U.S. Provisional Application Serial 				
 U.S. Patent Application Serial No. 				
 International Application Serial No. 	PCT/US2012/03411	, filed on	64/18/2012	
and any legal equivalent thereof in a foreign country, including the right to claim priority, and in and to all Letters Patent to be obtained for said inventions and discoveries by the above application(s) or any continuation, division, continuation-in-part, extension or substitute thereof, and any reissue, reexamination or extension of said Letters Patent and all rights under all International Conventions for the Protection of Industrial Property;				
ASSIGNOR(S) hereby covenants that no a into which would conflict with this assigns		ement or encumbrance h	as been or will be made or entered	
ASSIGNOR(S) further covenants that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said invention and said Letters Patent and legal equivalents as may be known and accessible to ASSIGNOR and will testify as to the same in any interference, litigation, or proceeding relating thereto and will promptly execute and deliver to ASSIGNEE or its legal representative any and all papers, instruments or affidavits required to apply for, obtain, maintain, issue or enforce said application, said invention and said Letters Patent and said equivalents thereof which may be necessary or desirable to carry out the purposes thereof. An attorney of record is authorized and requested by the execution of this assignment to insert into this assignment the filing date and serial number of said application when officially known.				
AND the <u>ASSIGNOR(S)</u> requests the Commissioner of Patents and Trademarks to issue said Letters Patent of the United States and any reissue or extension thereof to the ASSIGNEE, Lawrence Livermore National Security, LLC.				
executed this Signature of ASSIGNOR(s)				
5/20/2023	Madra Aud			
Date	Kedar G. Shah			
executed this		mure of ASSIGNOR(s)		
Date	Sant	inderpall S. Pannu		
executed this Signature of ASSIGNOR(s)				
Date	Terr	i L. Delima		

ASSIGNMENT

LLNL Record of Invention Case No. IL-12382 , entitled:

METHO	DD FOR FABRICATING F	IERMETIC HIGI	I-DENSITY ELECTR	ICAL FEEDTHROUGHS	
For good and val	uable consideration, the rece	ipt of which is here	by acknowledged, ASS	IGNOR(s)	
I. Kedar G. Sh	ah	2.	2. Santinderpall S. Pannu		
3. Temi L. Deli	ma	4,			
limited liability assigns and legal	company, having a place of	f business at 7000 INEE all of its righ	East Avenue, Livermo	ational Security, LLC, a Delaware re, CA 94550 and the successors, aghout the world in and to any and No, and in:	
• U.S. Provi	sional Application Serial No	61/476,6615	, filed on	04/18/2011	
• U.S. Pater	at Application Serial No.	14/009,332	, filed on	10/01/2013	
• Internation	nal Application Serial No. 1	*CT/US2012/03411	1 , filed on	04/18/2012	
part, extension of all International data International data into which would documents relational data and an arrangement of the control of	r substitute thereof, and any Conventions for the Protectic nereby covenants that no assid conflict with this assignmentarther covenants that ASSIC and to said invention and sa	reissue, reexaminat on of Industrial Prop ignment, sale, agree at: SNEE will, upon its id Letters Patent at	ion or extension of said serty; ment or encumbrance h request, be provided pand legal equivalents as	inuation, division, continuation-in- Letters Patent and all rights under as been or will be made or entered compily with all perminent facts and may be known and accessible to relating thereto and will promptly	
execute and deli- for, obtain, main which may be as	ver to ASSIGNEE or its lega dain, issue or enforce said ap- cessary or desirable to carry of this assignment to insert i	I representative any oplication, said inversely out the purposes the purpose the purposes the purposes the purpose the purpos	and all papers, instrumention and said Letters in hereof. An attorney of	ents or affidavits required to apply Patent and said equivalents thereof record is authorized and requested at number of said application when	
	NOR(S) requests the Commissue or extension thereof to			e said Letters Patent of the United onal Security, LLC.	
executed this		Sìgna	ture of ASSIGNOR(s)		
Date		Keda	r G. Shah		
executed this		Signa	ture of ASSIGNOR(s)		
a 118/200	3		LL		
Date	and the second s	Santi	nderpali S. Pannu		
executed this		Signa	ture of ASSIGNOR(s)		
Daie	······································	Terri	L. Delima		

ASSIGNMENT

LLNL Record of Invention Case No. IL-12382 , entitled: METHOD FOR FABRICATING HERMETIC HIGH-DENSITY ELECTRICAL FEEDTHROUGHS For good and valuable consideration, the receipt of which is hereby acknowledged, ASSIGNOR(s) 2. Santinderpall S. Pannu Kedar G. Shah 3. Terri L. Delima hereby sells, assigns, transfers, and conveys to ASSIGNEE, Lawrence Livermore National Security, LLC, a Delaware limited liability company, having a place of business at 7000 East Avenue, Livermore, CA 94550 and the successors, assigns and legal representative of the ASSIGNEE all of its right, title and interest throughout the world in and to any and all inventions and discoveries found in the above-listed LLNL Record of Invention Case No. and in: U.S. Provisional Application Serial No. 61/476,6615 , filed on 04/18/2011 U.S. Patent Application Serial No. 14/009,332 , filed on 10/01/2013 International Application Serial No. PCT/US2012/034111 , filed on 04/18/2012 and any legal equivalent thereof in a foreign country, including the right to claim priority, and in and to all Letters Patent to be obtained for said inventions and discoveries by the above application(s) or any continuation, division, continuation-inpart, extension or substitute thereof, and any reissue, reexamination or extension of said Letters Patent and all rights under all International Conventions for the Protection of Industrial Property; ASSIGNOR(S) hereby covenants that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment; ASSIGNOR(S) further covenants that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said invention and said Letters Patent and legal equivalents as may be known and accessible to ASSIGNOR and will testify as to the same in any interference, litigation, or proceeding relating thereto and will promptly execute and deliver to ASSIGNEE or its legal representative any and all papers, instruments or affidavits required to apply for, obtain, maintain, issue or enforce said application, said invention and said Letters Patent and said equivalents thereof which may be necessary or desirable to carry out the purposes thereof. An attorney of record is authorized and requested by the execution of this assignment to insert into this assignment the filing date and serial number of said application when officially known. AND the ASSIGNOR(S) requests the Commissioner of Patents and Trademarks to issue said Letters Patent of the United States and any reissue or extension thereof to the ASSIGNEE, Lawrence Livermore National Security, LLC. Signature of ASSIGNOR(s) executed this Kedar G. Shah Date Signature of ASSIGNOR(s) executed this Santinderpall S. Pannu Date Signature of ASSIGNORS) executed this Ferri L.: Delima

> PATENT REEL: 064972 FRAME: 0422

RECORDED: 09/20/2023