PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
JENNIFER MARIE KNIPE	04/04/2019
SWETHA CHANDRASEKARAN	04/04/2019
MARCUS A. WORSLEY	04/03/2019
SARAH E. BAKER	04/05/2019

RECEIVING PARTY DATA

Name:	LAWRENCE LIVERMORE NATIONAL SECURITY, LLC
Street Address:	2300 FIRST STREET, SUITE 204
City:	LIVERMORE
State/Country:	CALIFORNIA
Postal Code:	94550

PROPERTY NUMBERS Total: 2

Property Type	Number
Application Number:	15949378
PCT Number:	US1926665

CORRESPONDENCE DATA

Fax Number:

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.

Phone: 3239342300

Email: la_mail@la.ladas.com
Correspondent Name: LADAS & PARRY LLP

Address Line 1:5670 WILSHIRE BLVD, SUITE 2100Address Line 4:LOS ANGELES, CALIFORNIA 90036

ATTORNEY DOCKET NUMBER:	631946-5
NAME OF SUBMITTER:	MAVIS GALLENSON
SIGNATURE:	/Mavis Gallenson 32,464/
DATE SIGNED:	04/11/2019

Total Attachments: 7

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PATENT REEL: 048864 FRAME: 0388

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source=IL-13144 Assignment-WORSLEY#page1.tif
source=IL-13144 Assignment-WORSLEY#page2.tif

LLNL Record of Invention Case No. <u>IL-13144</u> , entitled:			
ELECTROMETHANOGENESIS REACTOR			
For good and valuable consideration, the receipt of which	is hereby acknowledged, ASSIGNOR(s)		
1. Jennifer Marie Knipe	2. Sarah E. Baker		
3. Marcus A. Worsley	4. Swetha Chandrasekaran		
hereby sells, assigns, transfers, and conveys to ASSIGNEE, Lawrence Livermore National Security, LLC, a Delaware Corporation, having its administrative offices located at 2300 First Street, Suite 204, 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. 15/949. 	378, filed on _04/10/2018		
• U.S. Patent Application Serial No. PCT/US			
International Application Serial No.			
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 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 filling 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.			
executed this OH / OM / Z O / A Date executed this	Signature of ASSIGNOR(s) Jeophifer Marie Knipe Signature of ASSIGNOR(s)		
Date	Sarah E. Baker		

LLNL Case No.: IL-13144		
executed this	Signature of ASSIGNOR(s)	
Date	Marcus A. Worsley	
executed this	Signature of ASSIGNOR(s)	
Oste	Swetha Chandrasekaran	•

tata!	NL Record of Invention Case No. <u>111314</u> ELECTI	* ROMETHA		inied: ENESIS P	EACTOR		
For	good and valuable consideration, the receip	n of which is	here	by acknow	edged, ASS	GNOR(s)	
۱.	Jennifer Marie Knipe		2.	Sarah E. I	3aker		
3. Marcus A. Worsley			4. Swetha Chandrasekaran			***************************************	
Cor suc	oby sells, assigns, transfers, and conveys poration, having its administrative offices cessors, assigns and legal representative of my and all inventions and discoveries found	s located at the ASSIGN	230(EE :) First Stre Ill of its rig	et, Suite 20 ht, title and i	4, Livermore, CA nterest throughout	94550 and the the world in and
*	U.S. Provisional Application Serial No.	15/949,37	8		, filed on	04/10/2018	
*	U.S. Patent Application Serial No.	PCT/US	19/	26665	, filed on	04/09/2019	
*	International Application Serial No.				, filed on		
doc AS exe for, whi	SIGNOR(S) further covenants that ASSIGN numents relating to said invention and said SIGNOR and will testify as to the same in cute and deliver to ASSIGNEE or its legal obtain, maintain, issue or enforce said appich may be necessary or desirable to carry o execution of this assignment to insert into cially known.	I Letters Pat any interfere representativo olication, sain ut the purpos	ent once, re and invites the	and legal e litigation, of y and all pa ention and ereof. An o	quivalents as or proceeding opers, instrum said Letters attorney of re	s may be known a g relating thereto an ents or affidavits r Patent and said eq- cord is authorized :	nd accessible to nd will promptly equired to apply uivalents thereo and requested by
	D the <u>ASSIGNOR(S)</u> requests the Commisters and any reissue or extension thereof to the						
exc	cuted this		Sign	ature of AS	SIGNOR(s)		
	Date	-	Jeni	ilfer Marie	Knipe		
exe	cuted this		Sign	ature of AS	SIGNOR(s)		
Ų	16/19		1				
	// bate	•	Zan	ıh E. Baker		***************************************	

LLNL Record of Invention Case No. <u>IL-131</u>	, entitled:		
ELECTROMETHANOGENESIS REACTOR			
For good and valuable consideration, the recei	pt of which is hereby acknowle	edged, ASSIGNOR(s)	
Jennifer Marie Knipe	•		
-			
3. Marcus A. Worsley 4. Swetha Chandrasekaran hereby sells, assigns, transfers, and conveys to ASSIGNEE, Lawrence Livermore National Security, LLC, a Delaware Corporation, having its administrative offices located at 2300 First Street, Suite 204, 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.	15/949,378	, filed on <u>04/10/2018</u>	
U.S. Patent Application Serial No	PCT/US19/26665	, filed on 04/09/2019	
• International Application Serial No		_ , filed on	
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 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. executed this Signature of ASSIGNOR(s)			
Date	Jennifer Marie K	Enipe	
executed this	Signature of ASS	SIGNOR(s)	
Date	Sarah E. Baker		

LLNL Case No.: 1L-13144	
executed this	Signature of ASSIGNOR(s)
Date	Marcus A. Worsley
executed this	Signature of ASSIGNOR(s)

Swetha Chandrasekaran

Date

LLNL Record of Invention Case No. <u>IL-1314</u>	, entitled:	
ELECT	ROMETHANOGENESIS REACTOR	
For good and valuable consideration, the receip	ot of which is hereby acknowledged, ASSIGNOR(s)	
1. Jennifer Marie Knipe	2. Sarah E. Baker	
3. Marcus A. Worsley	4. Swetha Chandrasekaran	
hereby sells, assigns, transfers, and conveys to ASSIGNEE, Lawrence Livermore National Security, LLC, a Delaware Corporation, having its administrative offices located at 2300 First Street, Suite 204, 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.		
• U.S. Patent Application Serial No.	PCT/US19/26665 , filed on 04/09/2019	
International Application Serial No	, filed on	
be obtained for said inventions and discoveries	buntry, including the right to claim priority, and in and to all Letters Patent to es by the above application(s) or any continuation, division, continuation-ineissue, reexamination or extension of said Letters Patent and all rights under a of Industrial Property;	
ASSIGNOR(S) hereby covenants that no assignment which would conflict with this assignment	gnment, sale, agreement or encumbrance has 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)	
Date	Jennifer Marie Knipe	
executed this	Signature of ASSIGNOR(s)	
Date	Sarah E. Baker	

LLNL Case No.: IL-13144	
executed this	Signature of ASSIGNOR(s)
4-3-19	MM/M
Date	Marcus A. Worsley
executed this	Signature of ASSIGNOR(s)
Date	Swetha Chandrasekaran