506570964 03/23/2021

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT6617743

SUBMISSION TYPE:	CORRECTIVE ASSIGNMENT
NATURE OF CONVEYANCE:	Corrective Assignment to correct the EXECUTION DATE FOR INVENTOR KYOUNG EUN KWEON previously recorded on Reel 055152 Frame 0671. Assignor(s) hereby confirms the CORRECT EXECUTION DATE FOR INVENTOR KYOUNG EUN KWEON IS 01/28/2021 NOT 01/29/2021.

CONVEYING PARTY DATA

Name	Execution Date
JOEL BASILE VARLEY	02/03/2021
NOAH PATRICK ALLEN	02/03/2021
CLINT FRYE	02/02/2021
KYOUNG EUN KWEON	01/28/2021
VINCENZO LORDI	02/02/2021
LARS VOSS	02/03/2021

RECEIVING PARTY DATA

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

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	17166962

CORRESPONDENCE DATA

Fax Number: (408)971-4660

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: 4089712573

Email: alma@zilkakotab.com
Correspondent Name: ZILKA-KOTAB, PC
Address Line 1: 1155 N. 1ST ST.

Address Line 2: SUITE 105

Address Line 4: SAN JOSE, CALIFORNIA 95112

ATTORNEY DOCKET NUMBER: IL-13324S1O1/LLNLP240

NAME OF SUBMITTER: DOMINIC M. KOTAB

PATENT 506570964 REEL: 055695 FRAME: 0282

SIGNATURE:	/Dominic M. Kotab/
DATE SIGNED:	03/23/2021
Total Attachments: 9	
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506488122 02/04/2021

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT6534898

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
JOEL BASILE VARLEY	02/03/2021
NOAH PATRICK ALLEN	02/03/2021
CLINT FRYE	02/02/2021
KYOUNG EUN KWEON	01/29/2021
VINCENZO LORDI	02/02/2021
LARS VOSS	02/03/2021

RECEIVING PARTY DATA

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

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	17166962

CORRESPONDENCE DATA

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Address Line 2: SUITE 105

Address Line 4: SAN JOSE, CALIFORNIA 95112

ATTORNEY DOCKET NUMBER:	IL-13324S1O1/LLNLP240	
NAME OF SUBMITTER:	DOMINIC M. KOTAB	
SIGNATURE:	/Dominic M. Kotab/	
DATE SIGNED:	02/04/2021	

ASSIGNMENT

LLNL Record of Invention Case No. <u>IL-13324S1O1</u>, entitled:

FIELD ASSISTED INTERFACIAL DIFFUSION DOPING THROUGH HETEROSTRUCTURE DESIGN

For good and valuable consideration, the	receipt of which is here	reby acknowledged, ASSIGNOR(s)
1. Joel Basile Varley	2.	Noah Patrick Allen
3. Clint Frye	4.	Kyoung Eun Kweon
5. Vincenzo Lordi	6.	Lars Voss
limited liability company, having a pla-	ce of business at 7000 ASSIGNEE all of its rig	Lawrence Livermore National Security, LLC, a Delawar 0 East Avenue, Livermore, CA 94550 and the successor ght, title and interest throughout the world in and to any ar Record of Invention Case No. and in:
U.S. Provisional Application Seria	al No.	, filed on
U.S. Patent Application Serial No.	17/166,962	, filed on 02/03/2021
International Application Serial N	o.	, filed on
ASSIGNOR(S) further covenants that A documents relating to said invention ar ASSIGNOR and will testify as to the sa execute and deliver to ASSIGNEE or its for, obtain, maintain, issue or enforce sa which may be necessary or desirable to compare the same of t	SSIGNEE will, upon it and said Letters Patent arme in any interference, a legal representative an aid application, said inverge out the purposes the	its request, be provided promptly with all pertinent facts are and legal equivalents as may be known and accessible and legal equivalents as may be known and accessible and all papers, instruments or affidavits required to approvention and said Letters Patent and said equivalents thereof. An attorney of record is authorized and requested by the filing date and serial number of said application who
		ts and Trademarks to issue said Letters Patent of the Unite Lawrence Livermore National Security, LLC.
executed this	Sign	nature of ASSIGNOR(s)
2/3/2021		fue lay
Date	Joel	el Basile Varley
executed this	Sign	nature of ASSIGNOR(s)
Date	Noa	ah Patrick Allen

ASSIGNMENT

LLNL Record of Invention Case No. IL-13324S1O1 , entitled:

FIELD ASSISTED INTERFACIAL DIFFUSION DOPING THROUGH HETEROSTRUCTURE DESIGN For good and valuable consideration, the receipt of which is hereby acknowledged, ASSIGNOR(s) 1. Joel Basile Varley 2. Noah Patrick Allen 4. Kyoung Eun Kweon Clint Frye 5. Vincenzo Lordi 6. Lars Voss hereby sells, assigns, transfers, and conveys to ASSIGNEE, Lawrence Eivermore 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. ______, filed on _____ U.S. Patent Application Serial No. 17/166,962 , filed on 02/03/2021 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-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. executed this Signature of ASSIGNOR(s) Date Joel Basile Varley executed this Signature of ASSIGNOR(s)

Noah Patrick Allen

LLNL Case No.: IL-133248101	
executed this 2/2/2/ Date	Signature of ASSIGNOR(s) Clint Frye
executed this	Signature of ASSIGNOR(s)
Date	Kyoung Eun Kweon
executed this	Signature of ASSIGNOR(s)
Date	Vincenzo Lordi
executed this	Signature of ASSIGNOR(s)

Lars Voss

Date

LLNL Case No.: <u>IL-13324S1O1</u>	*	\$
executed this	Signature of ASSIGNOR(s)	
Date	Clint Frye	
executed this	Signature of ASSIGNOR(s)	
1.29.204	Klute	
Date	Kyoung Eun Kweon	
executed this	Signature of ASSIGNOR(s)	
Date	Vincenzo Lordi	·
executed this	Signature of ASSIGNOR(s)	4 4
Date	Lars Voss	
	AAAAA 7 3000	

LLNL Case No.: <u>IL-13324S1O1</u>	
executed this	Signature of ASSIGNOR(s)
Date	Clint Frye
executed this	Signature of ASSIGNOR(s)
Date	Kyoung Eun Kweon
executed this $2/2/2021$	Signature of ASSIGNOR(s)
Date	Vincenzo Lordi
executed this	Signature of ASSIGNOR(s)
Caccated and	Signature of Alborol (OA(B)

Lars Voss

Date

LLNL Case No.: 11-133245101		
executed this	Signature of ASSIGNOR(s)	
Date	Clint Frye	
executed this	Signature of ASSIGNOR(s)	
Date	Kyoung Eun Kweon	
executed this	Signature of ASSIGNOR(s)	
Date	Vincenzo Lordi	
executed this	Signature of ASSIGNOR(s)	
44 2 Coate	Lars Voss	

PATENT REEL: 055695 FRAME: 0290

RECORDED: 03/23/2021