11/02/2020 506333988

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT6380739

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
LEILY S. KIANI	09/22/2020
JAY W. DAWSON	08/26/2020
DERREK R. DRACHENBERG	09/17/2020
MICHAEL J. MESSERLY	10/27/2020
PAUL H. PAX	05/26/2020

RECEIVING PARTY DATA

Name:	Lawrence Livermore National Security, LLC
Street Address:	2300 First Street
Internal Address:	Suite 204
City:	Livermore
State/Country:	CALIFORNIA
Postal Code:	94550

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16887313

CORRESPONDENCE DATA

Fax Number: (925)423-8259

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.

925-422-7272 Phone: Email: disney2@llnl.gov

LAWRENCE LIVERMORE NATIONAL LABORATORY **Correspondent Name:**

Address Line 1: 7000 EAST AVENUE Address Line 2: L-703, P.O. BOX 808

Address Line 4: LIVERMORE, CALIFORNIA 94551

ATTORNEY DOCKET NUMBER:	IL-13512
NAME OF SUBMITTER:	PAM DISNEY
SIGNATURE:	/PAM DISNEY/
DATE SIGNED:	11/02/2020

Total Attachments: 9

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source=IL-13512A Patent Assignment Dawson Signature#page1.tif

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LLNL Record of Invention Case No. IL-13512 , entitled: WAVELENGTH SELECTIVE FILTERING WITH NON-RADIAL ARRAY OF MICROSTRUCTURE ELEMENTS For good and valuable consideration, the receipt of which is hereby acknowledged, ASSIGNOR(s) 1. Leily S. Kiani 2. Jay W. Dawson 3. Derrek R. Drachenberg 4. Michael J. Messerly 5. Paul H. Pax 6. 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. _______, filed on ______ U.S. Patent Application Serial No. 16/887,313 , filed on 05/29/2020 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 <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)	
9/22/2020	Comment of the commen	
Date	Leily S. Kiani	
executed this	Signature of ASSIGNOR(s)	
Date	Jay W. Dawson	***************************************

<u>ASSIGNMENT</u>

LL	NL Record of Invention Case No. IL-13512	, er	titled:			
	WAVELENGTH SELECTIVE FILTERING WITH NON-RADIAL ARRAY OF MICROSTRUCTURE ELEMENTS					
For	good and valuable consideration, the receipt of which	is her	eby acknowle	dged, ASS	IGNOR(s)	
1.	Leily S. Kiani	2,	Jay W. Day	vson		WWW.
3. 🜊	Derrek R. Druchenberg	 4.	Michael J.	Messerly		
	Paul H. Pax					
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.	***************************************		, filed on		
*	U.S. Patent Application Serial No16/887.3	13		, filed on	05/29/2020	
88	International Application Serial No.			, filed on	***************************************	
be o part, all li	any legal equivalent thereof in a foreign country, include beained for said inventions and discoveries by the attention of substitute thereof, and any reissue, reconternational Conventions for the Protection of Industrational Conventions for the the model of Industrational Conventions for the world on the said which would conflict with this assignment;	ove a camina ial Pro	oplication(s) of stion or extensionerty;	or any cont sion of said	inuation, division Letters Patent	on, continuation-in- and all rights under
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.						
exec	uted this	Sign	ature of ASSI	GNOR(s)		
	Date	Leil	y S. Kiani			
exec	uted this	Şign	ature of ASSI	GNOR(s)		
\mathbb{Z}	196 8050		KIN		the same of the sa	
	Date	Jay	W. P awson			

LLNL Case No.: IL-13512		
executed this	Signature of ASSIGNOR(s)	
Date	Derrek R. Drachenberg	
executed this	Signature of ASSIGNOR(s)	
Date	Michael J. Messerly	
executed this	Signature of ASSIGNOR(s)	
Date	Paul H. Pax	

LLNL Record of Invention Case No. IL-13512 , entitled:

	H SELECTIVE FILTERING WITH NON-RADIAL Y OF MICROSTRUCTURE ELEMENTS
For good and valuable consideration, the reco	sipt of which is hereby acknowledged, ASSIGNOR(s)
1. Leily S. Kiani	2. Jay W. Dawson
3. Derrek R. Drachenberg	4. Michael J. Messerly
5. Paul H. Pax	6.
limited liability company, having a place of assigns and legal representative of the ASSI	s to ASSIGNEE, Lawrence Livermore National Security, LLC, a Delaware f business at 7000 East Avenue, Livermore, CA 94550 and the successors, GNEE all of its right, title and interest throughout the world in and to any and love-listed LLNL Record of Invention Case No. and in:
● U.S. Provisional Application Serial N), filed on
	16/887,313 , filed on <u>05/29/2020</u>
 International Application Serial No. 	, filed on
ASSIGNOR(S) hereby covenants that no assinto which would conflict with this assignment assignments relating to said invention and so assignment to assignment to assignment as a secure and deliver to ASSIGNEE or its leg for, obtain, maintain, issue or enforce said a which may be necessary or desirable to carry by the execution of this assignment to insert officially known. AND the ASSIGNOR(S) requests the Communication assignments as a secure of the communication and the communication as a secure of the communication and the communication as a secure of the communication and the communication as a secure of the communication as a secure of the communication and the communication as a secure of the communication and the communication	ignment, sale, agreement or encumbrance has been or will be made or entered
executed this	Signature of ASSIGNOR(s)
Date	Leily S. Kiani
executed this	Signature of ASSIGNOR(s)
Date	Jay W. Dawson

LENE Case No.: 112-13312		
executed this 09/17/2020 Date	Signature of ASSAGNOR(s) Output Derrek R. Drachenberg	
executed this	Signature of ASSIGNOR(s)	
Date	Michael J. Messerly	
executed this	Signature of ASSIGNOR(s)	

Paul H. Pax

Date

LLNL Record of Invention Case No.	<u>1L-13512</u>	, entitled:	
		TIVE FILTERING WITH NON-RADIAL CROSTRUCTURE ELEMENTS	
***************************************			***********
For good and valuable consideration,	the receipt of which	ch is hereby acknowledged, ASSIGNOR(s)	
1. Leily S. Kiani		2. Jay W. Dawson	
3. Derrek R. Drachenberg		4. Michael J. Messerly	
5. Paul H. Pax	***************************************	6.	
limited liability company, having a assigns and legal representative of the all inventions and discoveries found in	place of business e ASSIGNEE all on the above-listed	GNEE, Lawrence Livermore National Security, LLC, a Del at 7000 East Avenue, Livermore, CA 94550 and the succe of its right, title and interest throughout the world in and to an LLNL Record of Invention Case No. and in:	ssors,
		, filed on	
 U.S. Patent Application Serial 1 	No. 10/88	7,313 , filed on 05/29/2020	
 International Application Seria 	l No.	, filed on	
part, extension or substitute thereof, a all International Conventions for the F ASSIGNOR(S) hereby covenants that into which would conflict with this as ASSIGNOR(S) further covenants that documents relating to said invention	and any reissue, re Protection of Industrian of assignment, sa signment; ASSIGNEE will, and said Letters	above application(s) or any continuation, division, continuation examination or extension of said Letters Patent and all rights strial Property; ale, agreement or encumbrance has been or will be made or ended in the same of the same	under ntered ts and ble to
execute and deliver to ASSIGNEE or for, obtain, maintain, issue or enforce which may be necessary or desirable	its legal represent said application, to carry out the p	tative any and all papers, instruments or affidavits required to said invention and said Letters Patent and said equivalents the urposes thereof. An attorney of record is authorized and requisignment the filing date and serial number of said application	apply nereof nested
		f Patents and Trademarks to issue said Letters Patent of the USNEE, Lawrence Livermore National Security, LLC.	Inited
executed this		Signature of ASSIGNOR(s)	
Date		Leily S. Kiani	
executed this		Signature of ASSIGNOR(s)	
Date		Jay W. Dawson	Nacaaaaaaaa

LLNL Case No.: <u>IL-13512</u>	
executed this	Signature of ASSIGNOR(s)
Date	Derrek R. Drachenberg
executed this	Signature of ASSIGNOR(s)
27-0ct-2020	Michael J. Massarly
Date	Michael J. Messerly
executed this	Signature of ASSIGNOR(s)
Date	Paul H. Pax

WAVELENGTH SELECTIVE FILTERING WITH NON-RADIAL

ARRAY OF MICROSTRUCTURE ELEMENTS			
For good and valuable consideration, the receip	t of which is hereby acknowledged, ASSIGNOR(s)		
1. Leily S. Kiani	2. Jay W. Dawson		
	4. Michael J. Messerly		
5. Paul H. Pax	6.		
hereby sells, assigns, transfers, and conveys t limited liability company, having a place of the assigns and legal representative of the ASSIGN	o ASSIGNEE, Lawrence Livermore National Security, LLC, a Delaware pusiness at 7000 East Avenue, Livermore, CA 94550 and the successors, IEE all of its right, title and interest throughout the world in and to any and re-listed LLNL Record of Invention Case No. and in:		
	, filed on		
• U.S. Patent Application Serial No.	16/887,313 , filed on <u>05/29/2020</u>		
International Application Serial No.	, filed on		
part, extension or substitute thereof, and any reall International Conventions for the Protection ASSIGNOR(S) hereby covenants that no assigninto which would conflict with this assignment; ASSIGNOR(S) further covenants that ASSIGN documents relating to said invention and said ASSIGNOR and will testify as to the same in a execute and deliver to ASSIGNEE or its legal for, obtain, maintain, issue or enforce said app which may be necessary or desirable to carry oby the execution of this assignment to insert into officially known.	nment, sale, agreement or encumbrance has been or will be made or entered		
	e ASSIGNEE, Lawrence Livermore National Security, LLC.		
executed this	Signature of ASSIGNOR(s)		
Date	Leily S. Kiani		
executed this	Signature of ASSIGNOR(s)		
Date	Jay W. Dawson		

LLNL Case No.: <u>IL-13512</u>		
executed this	Signature of ASSIGNOR(s)	
Date	Derrek R. Drachenberg	
executed this	Signature of ASSIGNOR(s)	
Date	Michael J. Messerly	
executed this	Signature of ASSIGNOR(s)	
May 26, 2020	1 Paul Bry 1	
Date	Paul H. Pax	

RECORDED: 11/02/2020