506921873 10/14/2021

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

EPAS ID: PAT6968709

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
APURVA SHANTHARAJ GOWDA	07/10/2019
BRANDON WALTER BUCKLEY	07/10/2019
JASON THOMAS CHOU	07/10/2019
PETER THOMAS SETSUDA DEVORE	07/31/2019
DAVID SIMON PERLMUTTER	07/10/2019

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PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	17500777

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NAME OF SUBMITTER:	TATJANA MIRKOVIC
SIGNATURE:	/Tatjana Mirkovic/
DATE SIGNED:	10/14/2021
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Total Attachments: 2

PATENT REEL: 057810 FRAME: 0493

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PATENT REEL: 057810 FRAME: 0494

ASSIGNMENT

LLNL Record of Invention Case No. <u>IL-13439</u>	, entitled:											
ALL-OPTI	CAL HELIX ENCODER											
For good and valuable consideration, the receipt of whi	ich is hereby acknowledged, ASSIGNOR(s)											
I. Apurva Shantharaj Gowda	2. Brandon Walter Buckley											
3. Jason Thomas Chou	4. Peter Thomas Setsuda DeVore											
5. David Simon Perimutter	6.											
limited liability company, having a place of business	GNEE, Lawrence Livermore National Security, LLC, a Delaware at 7000 East Avenue, Livermore, CA 94550 and the successors, of its right, title and interest throughout the world in and to any and LLNL Record of Invention Case No. and in:											
● U.S. Provisional Application Serial No.	, filed on											
	, filed on											
	, filed on											
part, extension or substitute thereof, and any reissue, in all International Conventions for the Protection of Indu ASSIGNOR(S) hereby covenants that no assignment; into which would conflict with this assignment; ASSIGNOR(S) further covenants that ASSIGNEE will documents relating to said invention and said Letters ASSIGNOR and will testify as to the same in any interescute and deliver to ASSIGNEE or its legal represent for, obtain, maintain, issue or enforce said application, which may be necessary or desirable to carry out the post the execution of this assignment to insert into this a officially known.	above application(s) or any continuation, division, continuation-in- examination or extension of said Letters Patent and all rights under estrial Property; sale, agreement or encumbrance has been or will be made or entered I, upon its request, be provided promptly with all pertinent facts and e Patent and legal equivalents as may be known and accessible to reference, litigation, or proceeding relating thereto and will promptly stative any and all papers, instruments or affidavits required to apply estative any and said Letters Patent and said equivalents thereof purposes thereof. An attorney of record is authorized and requested assignment the filing date and serial number of said application when											
States and any reissue or extension thereof to the ASSI executed this OND 2019.												
executed this	Signature of ASSIGNOR(e)											
7/10/19 Date	Brandon Walter Buckley											

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7/10/19

Date

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7/31/19

Date

executed this

7/10/19

Signature of ASS|GNOR(s)

Jason Thomas Chou

Signature of ASSIGNOR(s)

Peter Thomas Setsuda DeVore

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David Simon Perlmutter

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RECORDED: 10/14/2021