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SUBMISSION TYPE:		NEW ASSIGNMENT	NEW ASSIGNMENT			
NATURE OF CONVEYANCE:		ASSIGNMENT	ASSIGNMENT			
CONVEYING PARTY DA	٩ΤΑ					
		Name	Exe	cution Date		
JAMES PATRICK KELLY	(01/09	9/2020		
JEFFERY J. HASLAM			01/09	9/2020		
MARK MITCHELL			01/08	8/2020		
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Property Type		Number				
PROPERTY NUMBERS						
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Application Number:						
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ASSIGNMENT

LLNL Record of Invention Case No.	IL-13332A	, entitled:
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CERAMIC NANOFIBER FILTER PACK FOR FLUID TREATMENT TECHNOLOGIES

For good and valuable consideration, the receipt of which is hereby acknowledged, ASSIGNOR(s)

ł	James Patrick KELLY	2,	Jeffery J. HASLAM
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Mark MITCHELL

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.	62/791,652 , filed or	January 11, 2019
\$	U.S. Patent Application Serial No.	, filed or	i
10	International Application Serial No.	, filed or	

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) 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

9/2020

executed this

executed this

Date

Signature of ASSIGNOR(s)

James Patrick KELLY

BURES FAILICE PERIOD

Signature of ASSIGNOR(s)

ery J. HASLAM

Signature of ASSIGNOR(s)

PATENT REEL: 051481 FRAME: 0914

RECORDED: 01/10/2020