506452095 01/15/2021

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
THEODORE F. BAUMANN	08/09/2012
JOE H. SATCHER JR.	07/27/2012
JOSEPH C. FARMER	07/26/2012

RECEIVING PARTY DATA

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

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	17035206

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.

using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

Phone: (408) 971-2573
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-12205A/LLNLP101A	
NAME OF SUBMITTER:	DOMINIC M. KOTAB	
SIGNATURE:	/Dominic M. Kotab/	
DATE SIGNED:	01/15/2021	

Total Attachments: 5

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PATENT 506452095 REEL: 054932 FRAME: 0715

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PATENT REEL: 054932 FRAME: 0716

ASSIGNMENT

LLNL Case No.: IL-12205		
For good and valuable consideration the receipt of which is hereby acknowledged ASSIGNOR(s)		
1. Theodore F. Baumann	2. Joe H. Satcher, Jr.	
3. Joseph C. Farmer	4.	
5.	6.	
hereby sells, assigns and transfers 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 for the United States and its territorial possessions and in all foreign countries in and to, any and all improvements which are disclosed in the invention entitled: ADSORPTION COOLING SYSTEM USING METAL ORGANIC FRAMEWORKS		
and which is found in		
U.S. patent application executed on listing the above named persons as inventor	rs , entitled as above and	
U.S. patent application serial no. 1345733	31 , filed on <u>04-26-2012</u>	
\square U. S. patent no, issued		
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 invention by the above application 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 <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 Sq 2012 Date	Signature of Inventor(s) Throdore F. Paumann	

ASSIGNMENT

LLNL Case No.: IL-12205		
For good and valuable consideration the receipt of which is hereby acknowledged ASSIGNOR(s)		
1. Theodore F. Baumann	2. Joe H. Satcher, Jr.	
3. Joseph C. Farmer	4.	
5	6.	
hereby sells, assigns and transfers 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 for the United States and its territorial possessions and in all foreign countries in and to, any and all improvements which are disclosed in the invention entitled:		
ADSORPTION COOLING SYSTEM USING METAL	ORGANIC FRAMEWORKS	
and which is found in		
O U.S. patent application executed on listing the above named persons as inventors	, entitled as above and	
U.S. patent application serial no. 13457331	1 , filed on <u>04-26-2012</u>	
U. S. patent no, issued		
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 invention by the above application 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 <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 Inventor(s)	
Date	Theodore F. Baumann	

LLNL Case No IL- 12203	
executed this 7/27/12 Date	Signature of Inventor(s) Joe H. Satcher, Jr.
executed this	Signature of Inventor(s)
Date	Joseph C. Farmer

ASSIGNMENT

LLNL Case No.: IL-12205			
For good and valuable consideration the receipt of which is hereby acknowledged ASSIGNOR(s)			
1.	Theodore F. Baumann	2.	Joe H. Satcher, Jr.
3.	Joseph C. Farmer	4.	
5.		6.	
hereby sells, assigns and transfers 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 for the United States and its territorial possessions and in all foreign countries in and to, any and all improvements which are disclosed in the invention entitled: ADSORPTION COOLING SYSTEM USING METAL ORGANIC FRAMEWORKS			
and	which is found in		
0			
	U.S. patent application serial no. 1345733	1	, filed on <u>04-26-2012</u>
	U. S. patent no, issued		
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 invention by the above application 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 <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	cuted this	S	Signature of Inventor(s)
	Date	_	Thoodore E. Daymann

LLNL Case No.: IL- 12205	
executed this	Signature of Inventor(s)
Date	Joe H. Satcher, Jr.
executed this 3/26/2017 Date	Signature of Inventor(s) Voseph C. Farmer