# 502358806 05/23/2013

# PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

## **CONVEYING PARTY DATA**

Name	Execution Date
Gisele Azimi	02/26/2013
Adam T. Paxson	02/26/2013
J. David Smith	04/08/2013
Kripa K. Varanasi	02/26/2013

## **RECEIVING PARTY DATA**

Name:	Massachusetts Insitute of Technology
Street Address:	77 Massachusetts Avenue
City:	Cambridge
State/Country:	MASSACHUSETTS
Postal Code:	02139

## PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	13741898

## **CORRESPONDENCE DATA**

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	PATENT
Signature:	/William R. Haulbrook/
NAME OF SUBMITTER:	William R. Haulbrook
ATTORNEY DOCKET NUMBER:	0492611-1209

REEL: 030476 FRAME: 0645

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Date:	05/23/2013	
	This document serves as an Oath/Declaration (37 CFR 1.63).	
Total Attachments: 14 source=1209_AssignmentDeclaration#page	2.tif 3.tif 4.tif 5.tif 6.tif 7.tif 8.tif	
source=1209_AssignmentDeclaration#page11.tif source=1209_AssignmentDeclaration#page12.tif source=1209_AssignmentDeclaration#page13.tif source=1209_AssignmentDeclaration#page14.tif		

PATENT REEL: 030476 FRAME: 0646

Attorney Docket No: 0492611-1209

# **COMBINED JOINT ASSIGNMENT & DECLARATION**

## A. ASSIGNMENT

WHEREAS, each of the below-named inventors whose name and residence is set forth in the following Table 1:

Inventor Name	City, State
1. Gisele Azimi	Waltham, MA
2. Adam T. Paxson	Cambridge, MA
3. J. David Smith	Boston, MA
4. Kripa K. Varanasi	Lexington, MA

Table 1

hereby declares and agrees, on behalf of himself/herself and all of his/her successors and assigns that each is aware of the patent application(s) entitled:

# LIQUID-ENCAPSULATED RARE-EARTH BASED CERAMIC SURFACES; and □ prepared for filing in the United States Patent and Trademark Office; or □ identified by United States Application Serial No. 13/741898 filed in the United States Patent and Trademark Office on January 15, 2013; and □ identified by International Patent Application No. Serial No. filed on Filing Date; and □ is also aware of the following priority applications:

WHEREAS Massachusetts Institute of Technology (hereinafter "ASSIGNEE"), having a usual place of business at 77 Massachusetts Avenue, Cambridge, MA 02139, desires to acquire or confirm an interest therein;

Serial No.: 61/615184; Filed: March 23, 2012

NOW, THEREFORE, to all whom it may concern be it known that, in consideration of agreements previously and duly entered into between the parties, and/or for other good and valuable consideration, the receipt of which is hereby acknowledged, I have sold, assigned, and transferred and/or do hereby sell, assign, and transfer unto said ASSIGNEE, its successors, assigns, and legal representatives, my entire right, title, and interest in and throughout the United States of America, its territories and all foreign countries, in and to any and all inventions described in the patent application, and/or any priority applications noted above; and hereby confirm that my sale, assignment and transfer is and was effective at least as of the filing date of the patent application or priority application, whichever is earliest. My sale, assignment and transfer applies to the above-referenced patent application, and to any application that is based in

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0492611-1209

whole or in part on the patent application, including to divisional, continuing, substitute, renewal, reissue, reexamination and other applications, for example that claim priority to the patent application. Also, this sale, assignment and transfer pertains to any and all other rights arising under or pursuant to any and all international agreements, treaties, or laws relating to the protection of industrial property, including all rights of priority under the International Convention for the Protection of Industrial Property, and in and to any such patent(s) as may issue thereon including any and all original and reissued patents which have been or shall be issued in the United States and foreign countries; said inventions, applications, and patent(s) to be held and enjoyed by ASSIGNEE for its own use and for its successors, assigns and legal representatives, to the full end of the term for which said patent(s) may be granted as fully and entirely as the same would have been held by me had this sale, assignment and transfer not been made;

- AND, I hereby acknowledge that this Assignment, being of my entire right, title, and interest in and to the inventions, carries with it the right in ASSIGNEE, by attorneys and agents of ASSIGNEE selection, to apply for and receive any and all patent(s) for said inventions in its own name;
- AND, I hereby further agree for myself and my executors and administrators to execute upon request any other lawful documents and likewise to perform any other lawful acts which may be deemed necessary to secure fully the patent(s) to ASSIGNEE, its successors, assignees, and legal representatives, but at its expense and charges, including the execution of application for patents in foreign countries, the execution of substitution, reissue, divisional or continuation applications, and the giving of testimony, preliminary statements, or other statements in any interference or other proceeding in which the inventions or any applications or patents directed to the inventions may be involved by communicating to the ASSIGNEE all facts I know relating to the inventions and their history, and generally by doing everything possible which ASSIGNEE shall consider desirable for aiding in securing and maintaining proper patent protection for the inventions and for vesting title in the inventions and all applications for patent and all patents on the inventions in ASSIGNEE;
- AND, I further hereby authorize ASSIGNEE or its attorneys or agents to insert the correct serial number(s) and/or filing date(s) into this assignment document, if appropriate;
- AND, I hereby appoint ASSIGNEE as my common agent for purposes of prosecuting international patent applications and any national patent applications for which such common agency is recognized;
- AND, I hereby request the Director of Patents and Trademarks of the United States to issue any and all patent(s) as shall be granted upon said application or applications based thereon to ASSIGNEE, its successors, assigns, and legal representatives;
- AND, I covenant with said ASSIGNEE that no assignment, grant, mortgage, license, or other agreement affecting the rights and property herein conveyed has been made to others by me, and that full right to convey the same as herein expressed is possessed by me.

# B. DECLARATION (37 CFR 1.63)

As a below named inventor, I hereby declare that:

This declaration is directed to the patent application entitled:

# LIQUID-ENCAPSULATED RARE-EARTH BASED CERAMIC SURFACES; and

Office; or	attached hereto or prepared for filing in the United States Patent and Trademark
⊠ States Patent	identified by United States Application Serial No. 13/741898 filed in the United and Trademark Office on January 15, 2013; or
	identified by International Patent Application No. Serial No. filed on Filing Date.
The a	above-identified application was made or authorized to be made by me.
	ieve that I am the original inventor or an original joint inventor of a claimed the application.
	beby acknowledge that any willful false statement made in this declaration is under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or

I have reviewed and understand the contents of the application, including the claims and am aware of the duty to disclose to the United States Patent and Trademark Office all information known to be material to patentability as defined in 37 CFR 1.56.

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Inventor Signature: (-1. A)	Date: _	212612013
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Print Witness Name: Boian Solomon		
Address: 235 Albany Street Combridge MA 02139		
Witness Signature: Name:		
Print Witness Name: Nario Seikay		
Address: 34 Black Bear dr. # 116, Watthen	MA	

Inventor Signature:	Date: _	2/26/13
Print Inventor Name: Adam T. Paxson	_	
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Witness Signatura En 1~		-
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Print Witness Name:	_
Address:	
Witness Signature:	
Print Witness Name:	
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Inventor Signature: Typ	Date: _	212612613
Print Inventor Name: Kripa K. Varanasi		_
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Witness Signature:		
Print Witness Name: Brian Solomon		
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Witness Signature: Now Siffe		
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Address: 34 Black Bear drive, WL		
Wallborn 184 A + 21,51		

Attorney Docket No: 0492611-1209

# **COMBINED JOINT ASSIGNMENT & DECLARATION**

## A. ASSIGNMENT

WHEREAS, each of the below-named inventors whose name and residence is set forth in the following Table 1:

Inventor Name	City, State
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- AND, I hereby acknowledge that this Assignment, being of my entire right, title, and interest in and to the inventions, carries with it the right in ASSIGNEE, by attorneys and agents of ASSIGNEE selection, to apply for and receive any and all patent(s) for said inventions in its own name;
- AND, I hereby further agree for myself and my executors and administrators to execute upon request any other lawful documents and likewise to perform any other lawful acts which may be deemed necessary to secure fully the patent(s) to ASSIGNEE, its successors, assignees, and legal representatives, but at its expense and charges, including the execution of application for patents in foreign countries, the execution of substitution, reissue, divisional or continuation applications, and the giving of testimony, preliminary statements, or other statements in any interference or other proceeding in which the inventions or any applications or patents directed to the inventions may be involved by communicating to the ASSIGNEE all facts I know relating to the inventions and their history, and generally by doing everything possible which ASSIGNEE shall consider desirable for aiding in securing and maintaining proper patent protection for the inventions and for vesting title in the inventions and all applications for patent and all patents on the inventions in ASSIGNEE;
- AND, I further hereby authorize ASSIGNEE or its attorneys or agents to insert the correct serial number(s) and/or filing date(s) into this assignment document, if appropriate;
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- AND, I hereby request the Director of Patents and Trademarks of the United States to issue any and all patent(s) as shall be granted upon said application or applications based thereon to ASSIGNEE, its successors, assigns, and legal representatives;
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Page 3 of 7

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