

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
RAYMOND W. BOURDEAU	10/03/2017
ANUPAMA LAKSHMANAN	10/02/2017
ARASH FARHADI	10/02/2017
AUDREY LEE-GOSSELIN	10/04/2017
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State/Country:	CALIFORNIA
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PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	15663635
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DATE SIGNED:	10/16/2017
Total Attachments: 5	
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ASSIGNMENT

We, Raymond W. BOURDEAU, residing in U.S with a mailing address at 8 Quirk St., Watertown, MA 02472,

Anupama LAKSHMANAN, residing in U.S. with a mailing address at 446 S. Catalina Ave., Apt. 302, Pasadena, CA 91106,

Arash FARHADI, residing in U.S. with a mailing address at 64 S. Oak Ave., Pasadena, CA 91107, and

Audrey LEE-GOSSELIN, residing in U.S. with a mailing address at 1115 Cordova St. #311, Pasadena, CA 91106,

hereby sell and assign for good and valuable consideration, the receipt of which we hereby acknowledge,

to CALIFORNIA INSTITUTE OF TECHNOLOGY, an entity having its principal place of business in U.S. at 1200 E California Blvd., M/C 6-32, Pasadena, CA 91125

hereinafter referred to as the assignee, its successors, assigns and nominees, our entire right, title and interest, including all priority rights under U.S. law and/or International conventions and treaties, in and to the "GENETICALLY ENGINEERED GAS VESICLE GENE CLUSTERS, GENETIC CIRCUITS, VECTORS, PROKARYOTIC CELLS, COMPOSITIONS, METHODS AND SYSTEMS FOR CONTRAST-ENHANCED IMAGING"

invented by us, as described and/or claimed in U.S. Provisional Application No. 62/413,206, filed on October 26, 2016, and in U.S. Provisional Application No. 62/367,750, filed on July 28, 2016, in the corresponding U.S. Patent Application No. 15/663,635, filed on July 28, 2017, and in any other related patent applications filed and/or to be filed not only for, to and in the United States of America its territories and possessions, but also for, to and in all other countries, including any and all divisions, reissues, continuations, continuations-in-part and extensions of said U.S. Patent Application and any and all International patent applications related to said U.S. Provisional Application No. 62/413,206 and/or U.S. Provisional Application No. 62/367,750 and/or U.S. Patent Application No. 15/663,635, and authorize and request any officials whose duty it is to issue patents, to issue any patent on said

"GENETICALLY ENGINEERED GAS VESICLE GENE CLUSTERS, GENETIC CIRCUITS, VECTORS, PROKARYOTIC CELLS, COMPOSITIONS, METHODS AND SYSTEMS FOR CONTRAST-ENHANCED IMAGING" and/or improvements thereof or resulting therefrom to said assignee or its successors, assigns or nominees, and agree to testify in any legal proceeding, sign all lawful papers, execute all divisional, continuation, continuation-in-part and/or reissue applications, make all rightful oaths and/or declarations and generally do everything possible to aid said assignee, its successors, assigns and nominees to obtain and enforce proper patent protection for said invention in the United States of America and in all other countries.

Subscribed and executed at Cambridge, MA USA
City Country

On 10/3/2017
Date

Inventor Name: Raymond W. BOURDEAU

Inventor Signature: [Signature]

Witnessed by:

Witness Name: NIKKI ROSS Signature [Signature]

Witness Name: Delai Chen Signature [Signature]

Subscribed and executed at _____
City Country

On _____
Date

Inventor Name: Anupama LAKSHMANAN

Inventor Signature: _____

Witnessed by:

Witness Name: _____ Signature _____

Witness Name: _____ Signature _____

"GENETICALLY ENGINEERED GAS VESICLE GENE CLUSTERS, GENETIC CIRCUITS, VECTORS, PROKARYOTIC CELLS, COMPOSITIONS, METHODS AND SYSTEMS FOR CONTRAST-ENHANCED IMAGING" and/or improvements thereof or resulting therefrom to said assignee or its successors, assigns or nominees, and agree to testify in any legal proceeding, sign all lawful papers, execute all divisional, continuation, continuation-in-part and/or reissue applications, make all rightful oaths and/or declarations and generally do everything possible to aid said assignee, its successors, assigns and nominees to obtain and enforce proper patent protection for said invention in the United States of America and in all other countries.

Subscribed and executed at _____

City

Country

On _____

Date

Inventor Name: Raymond W. BOURDEAU

Inventor Signature: _____

Witnessed by:

Witness Name: _____ Signature _____

Witness Name: _____ Signature _____

Subscribed and executed at Pasadena USA

City

Country

On Oct 2/2017

Date

Inventor Name: Anupama LAKSHMANAN

Inventor Signature: Anupama L

Witnessed by:

Witness Name: Robert Hurst Signature Robert Hurst

Witness Name: Jiaochi Lu Signature Jiaochi Lu

Subscribed and executed at Pasadena USA
City Country

On Oct 2/2-17
Date

Inventor Name: Arash FARHADI

Inventor Signature: Arash

Witnessed by:

Witness Name: Mohamed Abedi Signature: ABEDI

Witness Name: Jan Wu Signature: Jan

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On _____
Date

Inventor Name: Audrey LEE-GOSSELIN

Inventor Signature: _____

Witnessed by:

Witness Name: _____ Signature: _____

Witness Name: _____ Signature: _____

Subscribed and executed at _____
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On _____
Date

Inventor Name: Arash FARHADI

Inventor Signature: _____

Witnessed by:

Witness Name: _____ Signature _____

Witness Name: _____ Signature _____

Subscribed and executed at Paris France
City Country
On 10/4/2017
Date

Inventor Name: Audrey LEE-GOSSELIN

Inventor Signature: Audrey Lee Gosselin

Witnessed by:

Witness Name: Jean-Christophe Verbeke Signature Jean-Christophe Verbeke

Witness Name: DEMENE Charlie Signature DEMENE Charlie