505385943 03/21/2019

EPAS ID: PAT5432736

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

SUBMISSION TYPE:NEW ASSIGNMENTNATURE OF CONVEYANCE:ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
SANGEETA N. BHATIA	04/04/2014
GEOFREY A. VON MALTZAHN	09/10/2014
GABRIEL A. KWONG	04/02/2014

RECEIVING PARTY DATA

Name:	MASSACHUSETTS INSTITUTE OF TECHNOLOGY
Street Address:	77 MASSACHUSETTS AVENUE
City:	CAMBRIDGE
State/Country:	MASSACHUSETTS
Postal Code:	02139

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15966385

CORRESPONDENCE DATA

Fax Number: (617)646-8000

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.

Phone: 6176468000

Email: julia.moriggi@wolfgreenfield.com, patents helenl@wolfgreenfield.com

Correspondent Name: HELEN C. LOCKHART

Address Line 1: WOLF, GREENFIELD & SACKS, P.C.

Address Line 2: 600 ATLANTIC AVENUE

Address Line 4: BOSTON, MASSACHUSETTS 02210

ATTORNEY DOCKET NUMBER: M0656.70181US03

NAME OF SUBMITTER: HELEN C. LOCKHART

SIGNATURE: /Helen C. Lockhart/

DATE SIGNED: 03/21/2019

Total Attachments: 8

source=M065670181US03-ASI-HCL#page1.tif source=M065670181US03-ASI-HCL#page2.tif source=M065670181US03-ASI-HCL#page3.tif

PATENT 505385943 REEL: 048656 FRAME: 0151

source=M065670181US03-ASI-HCL#page4.tif source=M065670181US03-ASI-HCL#page5.tif source=M065670181US03-ASI-HCL#page6.tif source=M065670181US03-ASI-HCL#page7.tif source=M065670181US03-ASI-HCL#page8.tif

> PATENT REEL: 048656 FRAME: 0152

ASSIGNMENT

For good and valuable consideration, the receipt of which is hereby acknowledged, I, the undersigned Assignor, hereby:

- Sell, assign and transfer to Massachusetts Institute of Technology, a Massachusetts Non-profit Corporation having a place of business at 77 Massachusetts Avenue: Cambridge. Massachusetts 02139, its successors, assigns and legal representatives, all hereinafter referred to as the Assignee, my entire right, title and interest for the United States and all foreign countries, in and to any and all inventions and designs which are disclosed in the application for United States Letters Patent filed in the United States Patent and Trademark Office on January 28, 2014 under No. 14/166,481, bearing Attorney Docket No. M0656.70181US02, and entitled METHODS AND PRODUCTS FOR IN VIVO ENZYME PROFILING, and in and to the application and all corresponding provisional, non-provisional, divisional, continuing, substitute, renewal, reissue and all other applications for Letters Patent, utility models, industrial designs or similar intellectual property rights which have been or shall be filed in the United States, internationally, and in any foreign country, including but not limited to China, Japan and Korea, on any of the inventions; and in and to all original and reissued patents which have been or shall be issued in the United States or any other jurisdiction on the inventions, including the right to apply for patent rights in each foreign country and all rights to priority, including the right to claim priority for China, Japan and Korea;
- 2. Agree that the Assignee may apply for and receive Letters Patent and utility model and industrial design registrations for the inventions in its own name; and when requested, without charge to but at the expense of the Assignee, I agree to carry out in good faith the intent and purpose of this assignment, by executing all non-provisional, divisional, continuing, substitute, renewal, reissue, and all other patent, utility model and industrial design applications on any and all the inventions, by executing all rightful oaths, assignments, powers of attorney and other papers, by communicating to the Assignee all facts known to me relating to the inventions and the history thereof, and generally by doing everything reasonably possible which the Assignee shall consider desirable for aiding in securing and maintaining proper protection for the inventions and for vesting title to the inventions and all applications for patents and all patents on the inventions, in the Assignee:
- 3. Request the Director of the United States Patent and Trademark Office to issue the Letters Patent to the Assignee;
- 4. Authorize and request Wolf, Greenfield & Sacks, P.C. to supply any missing patent/application identification information or correct any errors in the patent/application identification information provided above, whether discovered prior to or after recordation;
- 5. Covenant with the 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; and
- 6. Appoint Assignee, through its designee, my attorney-in-fact to execute, in my name and on my behalf, any and all documents required to effectuate this Assignment, specifically including, but not limited to, those documents specified above and any necessary corrective assignments.

This instrument is executed under seal and signed under the pains and penalties of perjury under the laws of the United States of America.

Attorney Docket No. M0656.70181US02

Page 1 of 4

OULOU) IUL	Inventor: Sangesta N. Bhatla Address: 32 Ingleside Road Lexington, MA 02420 Cilizenship: US Cilizenship: US
Witness: U U U Date	Signature Signature Name: Sue Kangice Address: Aslington, MA 02474
Witness: 4/4/14 Date	Signature Name: Lia Ingaharro Address: 32 haunel Ave Methuen, MA 01844

Attorney Clocket No. M0656,70181US02

Page 2 of 4

Date		Geoffrey A. von Maltzahn
	Address:	61 Salem Street, Apt. 5
		Boston, Massachusetts 02113
	Citizenship:	US
Witness:		
Date	Signature	
Dale	Signature	•
	Name:	
	Address:	
Witness:		
Date	Signature	
	Name:	
	Address:	

4/2/14		19. de Cen
Date		Gabriel A. Kwong
	Address:	117 Park Drive
		Apt. 37
	ricanata.	Boston, Massachuselts 02215
	Citizenship:	us -
Witness: 4/5/14		Suc Kan
Date	Signature	
	Name:	Suc Kangièr
	Address:	25 Softweeth ST.
		Arbyton, 211 03474
Witness:		
<u>4/3/14</u> Date	:	Aly Bugley.
Date	Signature	7 3
	Name:	Alex_Bagley
	Address:	_550 Winthrop Mail Genter
		Cambridge, 114 02138

ASSIGNMENT

For good and valuable consideration, the receipt of which is hereby acknowledged, I, the undersigned Assignor, hereby:

- Sell, assign and transfer to Massachusetts Institute of Technology, a Massachusetts 1. Non-profit Corporation having a place of business at 77 Massachusetts Avenue; Cambridge, Massachusetts 02139, its successors, assigns and legal representatives, all hereinafter referred to as the Assignee, my entire right, title and interest for the United States and all foreign countries, in and to any and all inventions and designs which are disclosed in the application for United States Letters Patent filed in the United States Patent and Trademark Office on January 28, 2014 under No. 14/166,481, bearing Attorney Docket No. M0656.70181US02, and entitled METHODS AND PRODUCTS FOR IN VIVO ENZYME PROFILING, and in and to the application and all corresponding provisional, non-provisional, divisional, continuing, substitute, renewal, reissue and all other applications for Letters Patent, utility models, industrial designs or similar intellectual property rights which have been or shall be filed in the United States. internationally, and in any foreign country, including but not limited to China, Japan and Korea. on any of the inventions; and in and to all original and reissued patents which have been or shall be issued in the United States or any other jurisdiction on the inventions, including the right to apply for patent rights in each foreign country and all rights to priority, including the right to claim priority for China, Japan and Korea;
- 2. Agree that the Assignee may apply for and receive Letters Patent and utility model and industrial design registrations for the inventions in its own name; and when requested, without charge to but at the expense of the Assignee, I agree to carry out in good faith the intent and purpose of this assignment, by executing all non-provisional, divisional, continuing, substitute, renewal, reissue, and all other patent, utility model and industrial design applications on any and all the inventions, by executing all rightful oaths, assignments, powers of attorney and other papers, by communicating to the Assignee all facts known to me relating to the inventions and the history thereof, and generally by doing everything reasonably possible which the Assignee shall consider desirable for aiding in securing and maintaining proper protection for the inventions and for vesting title to the inventions and all applications for patents and all patents on the inventions, in the Assignee;
- 3. Request the Director of the United States Patent and Trademark Office to issue the Letters Patent to the Assignee;
- 4. Authorize and request Wolf, Greenfield & Sacks, P.C. to supply any missing patent/application identification information or correct any errors in the patent/application identification information provided above, whether discovered prior to or after recordation;
- 5. Covenant with the 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; and
- 6. Appoint Assignee, through its designee, my attorney-in-fact to execute, in my name and on my behalf, any and all documents required to effectuate this Assignment, specifically including, but not limited to, those documents specified above and any necessary corrective assignments.

This instrument is executed under seal and signed under the pains and penalties of perjury under the laws of the United States of America.

Date	Inventor:	Sangeeta N. Bhatia
		32 Ingleside Road
		Lexington, MA 02420
	Citizenship:	ÜS *
Witness:		
Date		3
	Name:	
	Address:	
		× × × × × × × × × × × × × × × × × × ×
Witness:		
Date	Signature	>
	Name:	
58	Address:	

9/10/19		
Daty /	Inventor:	Geogrey A, von Maltzahn
· F	Address:	61 Salem Street, Apt. 5
		Boston, Massachusetts 02113
	Citizenship:	us
Witness: 9 / 15 / 14		
a / 16 / 14 Date	Signature	.
	Name:	Gerardo V. Tole do
	Address:	76 wellesley Fd
		Belmont UA 02478
*		
Witness: 9/10/14	S	m Alex
Date	Signature	
	Name:	David Johnston
	Address:	10 Manazine St Apt 806

Date	Inventor:	Gabriel A. Kwong	
		117 Park Drive	
		Apt, 37	
	.XY	Boston, Massachusetts 02215	
	Citizenship:	na	
Witness:			
		*	
Date	Signature		***************************************
	Name:		

	Address:		110000000000
Witness:			
Date	Signature		
	×8		
	Name:		
	Address:		

Attorney Docket No. M0656,70181US02

RECORDED: 03/21/2019

Page 4 of 4