502149156 12/04/2012

PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Mansoor Sheik-Bahae	10/23/2012
Michael Hasselbeck	10/23/2012
Denis V. Seletskiy	10/12/2012

RECEIVING PARTY DATA

Name:	The Regents of the University of New Mexico	
Street Address:	1 University of New Mexico MSC05 3440	
City:	Albuquerque	
State/Country:	NEW MEXICO	
Postal Code:	87131	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	12791156

CORRESPONDENCE DATA

Fax Number: 5052727300

Correspondence will be sent via US Mail when the fax attempt is unsuccessful.

Email: Istanich@stc.unm.edu
Correspondent Name: Lindsay Stanich

Address Line 1: 801 University Blvd. Suite 101
Address Line 4: Albuquerque, NEW MEXICO 87106

NAME OF SUBMITTER:	Lindsay Stanich

Total Attachments: 6

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PATENT REEL: 029398 FRAME: 0795 OP \$40.00 12791156

502149156

INVENTOR ASSIGNMENT TO UNM

ASSIGNMENT from (inventor name): Mansoor Sheik-Bahae whose address is set forth on the signature page hereof (the "Inventor"), to the Regents of the University of New Mexico, an educational institution of the State of New Mexico, whose address is 1 University of New Mexico, MSC05-3440, Albuquerque, NM, 87131 (the "University").

WHEREAS, the Inventor, while employed by or enrolled at the University, conceived and/or reduced to practice one or more inventions which are described both in the disclosure described below and in other materials associated with the disclosure, including materials prepared after the date of this Assignment. The disclosure is identified as:

UNM Docket Ref.	Title Programme Description Light and Mark District Programme Progra
No.	그 게 되는 동안하다는 말로 하는데 그런 맛이 들어왔다. 생각이 없는데 뭐라면 사람이 사용하는데 모든
2009-126	Optical Coupled-Cavity Photo-Acoustic Spectroscopy
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(both the disclosure and the associated materials are collectively referred to herein as the "Invention Disclosure");

WHEREAS, one or more patent application(s) either have been or may be filed in the future in the United States Patent and Trademark Office and other patent offices covering the invention or inventions described in the Invention Disclosure (collectively, the "Patent Application(s)"). Any such patent application(s) filed as of the date hereof are described below:

Patent App. Seria	l No. Country	Date of Filing	Title () - Line of William Residence
12/791,156	Ų.S.	6/1/2010	Optical Coupled-Cavity Photo-Acoustic
			Spectroscopy

and

WHEREAS, the University is legally entitled to obtain a formal assignment from the Inventor of his/her entire right, title, and interest in and to invention(s) and related technology created by Inventor during his/her employment or enrollment by the University.

NOW, THEREFORE, the Inventor has individually and jointly agreed to assign and transfer and does hereby assign and transfer unto the University, its successors and assigns his/her entire right, title, and interest in and to: (a) the invention(s) described in the Invention Disclosure and/or Patent Application(s); (b) any technical information, know-how, trade secret, process, procedure, composition, biological materials, device, method, formula, protocol, technique, software, design, tradename, trademark, copyright, copyrightable material, drawing or data which is related to the aforesaid invention(s) and/or that is included in the Invention Disclosure, whether or not covered by the Patent Application(s); (c) all rights of the Inventor in the Patent Application(s) including but not limited to all divisions, Letters Patent, reissues, re-examinations, continuations, continuations-in-part, continuing patent applications, substitutions, renewals, extensions filed and all patent(s) issuing thereon in the United States and all foreign countries, including but not limited to the right to apply for Letters Patent, Utility Models, or Inventor Certificates or equivalents in foreign countries in the Inventor's own name and to claim any priority rights for such foreign applications to which such applications are entitled under such countries' domestic laws, international conventions, treaties, or otherwise; and (d) to the extent the University owns the same under its policies and practices, all improvements to the invention(s) described in the Invention Disclosure and/or Patent Application(s) hereafter made or invented by the Inventor (all of the foregoing, (a), (b), (c), and (d) being collectively referred to throughout this Assignment as the "Invention"); and (e) the right to assert claims and bring lawsuits for any violation or infringement of any of the intellectual property rights assigned hereby, including all patents issuing on the Patent Applications.

The Inventor has individually and jointly already agreed and does hereby warrant for himself/herself and heirs, executors, and administrators, to execute and deliver without further consideration any further applications, assignments, and documents, and to perform such other acts as lawfully may be deemed necessary by the University, its successors, assigns, and nominees, fully to secure its right, title, and interest as aforesaid and to obtain and maintain Letters Patent, Utility Models, or Inventors' Certificates in any and all counties; and the Inventor hereby authorizes and requests the Commissioner of Patents to issue any and all Letters Patent which may be granted upon any of said applications, to the University as the assignee of the entire right, title, and interest therein.

THE INVENTOR FURTHER ACKNOWLEDGES AND AGREES AS FOLLOWS:

 In accordance with the University's policies and practices, all net revenues from the Invention (all income received by the University, or its assignee, from commercialization of the Invention, not including payments for research, development or reimbursement of certain costs), shall be divided as follows: forty percent (40%) equally to the Inventors (unless the Inventors)

> PATENT REEL: 029398 FRAME: 0796

have otherwise agreed in writing and so notified the University), forty percent (40%) to STC.UNM, and twenty percent (20%) to the University.

- 2. For the purpose of enabling the University, its successors and assigns, without further consideration to obtain, defend and enforce all United States and foreign intellectual property rights in the Invention, the Inventor shall timely communicate all information, execute all documents, testify in all legal proceedings and take all such other actions necessary or desirable to accomplish such purpose.
- 3. The Inventor authorizes the attorney of record for the Patent Application(s) without further consideration to insert in this Assignment where indicated above, or in an Addendum to be attached hereto, the filing date, country where filed, title and serial number of such Patent Application(s) filed hereafter as they become officially known.
- 4. The Inventor authorizes and requests without further consideration all domestic and foreign patent office officials to issue all patents, when granted, to the University, its successors and assigns.
- 5. The Inventor warrants and represents without further consideration that no assignment, sale, agreement or encumbrance has been or will be made or entered into by him/her which would conflict with this assignment.
- 6. THE UNDERSIGNED INVENTOR ACKNOWLEDGES BY HIS/HER SIGNATURE HERETO THAT HE/SHE HAS READ THE FOREGOING, UNDERSTAND ITS CONTENTS AND HAS HAD THE OPPORTUNITY TO CONSULT LEGAL COUNSEL OF HIS/HER CHOOSING CONCERNING HIS/HER RIGHTS AND OBLIGATIONS HEREUNDER.

22/6/		10-23-2012
Assignor (Inventor) Signature (Mansoor Assignor (Inventor) Address: 10113 San Bernardino Drive NE Albuquerque, NM 87122 United States	Sheik-Bahae)	Date
STATE OF NEW MEXICO COUNTY OF BERNALILLO)) ss.	

The foregoing instrument was subscribed and acknowledged before me, this 23" day of 0070866. 2012 by the afore mentioned inventor.

My Commission Expires:

Seal:

Notary Public

OFFICIAL SEAL
Linz M. Sandve

VOTEARY PUBLIC
STATE OF NEW, MEXICO
My Commission Expuss. 7/2/46

INVENTOR ASSIGNMENT TO UNM

ASSIGNMENT from (inventor name): Michael Hasselbeck whose address is set forth on the signature page hereof (the "Inventor"), to the Regents of the University of New Mexico, an educational institution of the State of New Mexico, whose address is 1 University of New Mexico, MSC05-3440, Albuquerque, NM, 87131 (the "University").

WHEREAS, the Inventor, while employed by or enrolled at the University, conceived and/or reduced to practice one or more inventions which are described both in the disclosure described below and in other materials associated with the disclosure, including materials prepared after the date of this Assignment. The disclosure is identified as:

UNM Docket	Title	
Ref. No.		
2009-126	Optical Coupled-Cavity Photo-Acoustic Spectrosco	ру

(both the disclosure and the associated materials are collectively referred to herein as the "Invention Disclosure");

WHEREAS, one or more patent application(s) either have been or may be filed in the future in the United States Patent and Trademark Office and other patent offices covering the invention or inventions described in the Invention Disclosure (collectively, the "Patent Application(s)"). Any such patent application(s) filed as of the date hereof are described below:

Patent App.	Country	Date of	Title
Serial No.	하시는데 아내시간이다.	Filing	
12/791,156	Ú.S.	6/1/2010	Optical Coupled-Cavity Photo-Acoustic
			Spectroscopy

and

WHEREAS, the University is legally entitled to obtain a formal assignment from the Inventor of his/her entire right, title, and interest in and to invention(s) and related technology created by Inventor during his/her employment or enrollment by the University.

NOW, THEREFORE, the inventor has individually and jointly agreed to assign and transfer and does hereby assign and transfer unto the University, its successors and assigns his/her entire right, title, and interest in and to: (a) the invention(s) described in the Invention Disclosure and/or Patent Application(s); (b) any technical information, know-how, trade secret, process, procedure, composition, biological materials, device, method, formula, protocol, technique, software, design, trade-name, trademark, copyright, copyrightable material, drawing or data which is related to the aforesaid invention(s) and/or that is included in the Invention Disclosure, whether or not covered by the Patent Application(s); (c) all rights of the Inventor in the Patent Application(s) including but not limited to all divisions, Letters Patent, reissues, re-examinations, continuations, continuations-in-part, continuing patent applications, substitutions, renewals, extensions filed and all patent(s) issuing thereon in the United States and all foreign countries, including but not limited to the right to apply for Letters Patent, Utility Models, or Inventor Certificates or equivalents in foreign countries in the Inventor's own name and to claim any priority rights for such foreign applications to which such applications are entitled under such countries' domestic laws, international conventions, treaties, or otherwise; and (d) to the extent the University owns the same under its policies and practices, all improvements to the Invention(s) described in the Invention Disclosure and/or Patent Application(s) hereafter made or invented by the Inventor (all of the foregoing, (a), (b), (c), and (d) being collectively referred to throughout this Assignment as the "Invention"); and (e) the right to assert claims and bring lawsuits for any violation or infringement of any of the intellectual property rights assigned hereby, including all patents issuing on the Patent Applications.

The Inventor has individually and jointly already agreed and does hereby warrant for himself/herself and heirs, executors, and administrators, to execute and deliver without further consideration any further applications, assignments, and documents, and to perform such other acts as lawfully may be deemed necessary by the University, its successors, assigns, and nominees, fully to secure its right, title, and interest as aforesaid and to obtain and maintain Letters Patent, Utility Models, or Inventors' Certificates in any and all counties; and the Inventor hereby authorizes and requests the Commissioner of Patents to issue any and all

PATENT REEL: 029398 FRAME: 0798 Letters Patent which may be granted upon any of said applications, to the University as the assignee of the entire right, title, and interest therein.

THE INVENTOR FURTHER ACKNOWLEDGES AND AGREES AS FOLLOWS:

- In accordance with the University's policies and practices, all net revenues from the Invention (all income received by the University, or its assignee, from commercialization of the Invention, not including payments for research, development or reimbursement of certain costs), shall be divided as follows: forty percent (40%) equally to the Inventors (unless the Inventors have otherwise agreed in writing and so notified the University), forty percent (40%) to STC.UNM, and twenty percent (20%) to the University.
- For the purpose of enabling the University, its successors and assigns, without further consideration to obtain, defend and enforce all United States and foreign intellectual property rights in the Invention, the Inventor shall timely communicate all information, execute all documents, testify in all legal proceedings and take all such other actions necessary or desirable to accomplish such purpose.
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- 6. THE UNDERSIGNED INVENTOR ACKNOWLEDGES BY HIS/HER SIGNATURE HERETO THAT HE/SHE HAS READ THE FOREGOING, UNDERSTAND ITS CONTENTS AND HAS HAD THE OPPORTUNITY TO CONSULT LEGAL COUNSEL OF HIS/HER CHOOSING CONCERNING HIS/HER RIGHTS AND OBLIGATIONS HEREUNDER.

11/11 414828 MV		001 23 2012
Assignor (Inventor) Signature (Michael Hass	selbeck)	Date
Assignor (Inventor) Address: 3209 Caqua Drive		
Albuquerque.		
NM 87110		
<u>United States</u>		
STATE OF NEW MEXICO)		
•	55.	
COUNTY OF BERNALILLO)		
The foregoing instrument was subscribed ar	nd acknowledged before	me, this ∰day of <u>Octobe</u> √
, <u>SOIZ</u> by the afore mentione	ad inventor.	
	A.	· · · · · · · · · · · · · · · · · · ·
	Company States	m. Sadu
My Commission Expires:	Notary Pub	HC
J. /		OFFICIAL SEAL
7/2/16	Seal:	\/\delta \delta
		NOTARY PUBLIC

INVENTOR ASSIGNMENT TO UNM

ASSIGNMENT from (inventor name): Denis V. Seletskiy whose address is set forth on the signature page hereof (the "Inventor"), to the Regents of the University of New Mexico, an educational institution of the State of New Mexico, whose address is 1 University of New Mexico, MSC05-3440, Albuquerque, NM, 87131 (the "University").

WHEREAS, the Inventor, while employed by or enrolled at the University, conceived and/or reduced to practice one or more inventions which are described both in the disclosure described below and in other materials associated with the disclosure, including materials prepared after the date of this Assignment. The disclosure is identified as:

UNM Docket Ref. Title No.
2009-126 Optical Coupled-Cavity Photo-Acoustic Spectroscopy

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Patent App. Seria	il No. Country	Date of Filing	Title
12/791,156	U.S.	6/1/2010	Optical Coupled-Cavity Photo-Acoustic
			Spectroscopy

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> PATENT REEL: 029398 FRAME: 0800

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- 2. For the purpose of enabling the University, its successors and assigns, without further consideration to obtain, defend and enforce all United States and foreign intellectual property rights in the Invention, the Inventor shall timely communicate all information, execute all documents, testify in all legal proceedings and take all such other actions necessary or desirable to accomplish such purpose.
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HEREUNDER.				
		and the same of th	$\frac{10/12}{Date}$	12012
Assignor (Inventor) Signature (Denis V. Se	etskiy)		Date /	
Assignor (Inventor) Address:			r	
Fach M 696				
Konstanz 78457				
Germany				
Witness 1: The foregoing Assignment was subscribed a afore mentioned inventor.	nd acknowledged befor	e me, this 12 Th day of	απυβές	<u>2012</u> by the
	a	DANIECE	BRIDA	
Witness Signature		Witness	Typed/Printed N	ame
Witness 2: The foregoing Assignment was subscribed a afore mentioned inventor.	nd acknowledged befor	e me, this 12th day of	October	
The		Alexej Po	ishkin	

Witness Signature

PATENT REEL: 029398 FRAME: 0801

RECORDED: 12/04/2012