502201045 01/18/2013

PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Ariel Anbar	12/21/2012
Joseph Skulan	12/19/2012
Gwyneth Gordon	12/17/2012
Jennifer Morgan	12/17/2012

RECEIVING PARTY DATA

IIName:	Arizona Board of Regents, a body corporate of the State of Arizona Acting for and on behalf of Arizona State University	
Street Address:	1475 North Scottsdale Road, Suite 200	
City:	Scottsdale	
State/Country:	ARIZONA	
Postal Code:	85257	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	13703103

CORRESPONDENCE DATA

Fax Number: 5207702237

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

Phone: 520-770-8700

Email: alice.vanicek@quarles.com

Correspondent Name: Gavin Milczarek-Desai/Quarles & Brady
Address Line 1: ONE SOUTH CHURCH AVENUE, SUITE 1700

Address Line 4: TUCSON, ARIZONA 85701-1621

ATTORNEY DOCKET NUMBER:	112624.00350	
NAME OF SUBMITTER:	Gavin J. Milczarek-Desai	

Total Attachments: 4

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> PATENT REEL: 029658 FRAME: 0759

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For good and valuable consideration, the receipt of which is hereby acknowledged, I, ARIEL ANBAR, (Assignor) of Phoenix, Arizona, have sold, assigned, and transferred, and do hereby sell, assign, and transfer unto ARIZONA BOARD OF REGENTS, a body corporate of the State of Arizona Acting for and on behalf of Arizona State University (Assignee), a non-profit organization of the State of Arizona, having its principal office in Scottsdale, State of Arizona, United States of America, and its successors, assigns, and legal representatives, the entire right, title, and interest in and to certain invention(s) entitled ISOTOPIC BIOMARKERS FOR RAPID ASSESSMENT OF BONE MINERAL BALANCE IN BIOMEDICAL APPLICATIONS, which is described, illustrated, and claimed in an application for Letters Patent of the United States of America, Application No. 13/703,103, filed on December 10, United States of America, Application No. 13/703,103 , filed on <u>December 10</u>, 2012, claiming the benefit of U.S. Patent Application No. 61/353,267, filed June 10, 2010, and International Patent Application No. PCT/US2011/039780, filed June 9, 2011, together with the entire right, title and interest in and to any Letters Patent which may be issued upon said application, and in and to any continuation, division, reissue, reexamination, extension, renewal, or substitute thereof, and in and to any patent which may grant from such application. I hereby authorize and request all government authorities in any country to issue patent(s) upon the aforesaid application, continuation, division, reissue, reexamination, extension, renewal, or substitute, to Assignee, for the sole use and behalf of Assignee, its successors, assigns, and legal representatives, to the full end of the term for which the patent(s) may be granted, the same as they would have been held and enjoyed by me had this assignment not been made. I agree that, when requested, I will, without charge to Assignee, but at its expense, sign all papers, take all rightful oaths, and do all acts which may be necessary, desirable, or convenient for securing and maintaining patents for the invention(s) in any and all countries and for vesting title thereto in Assignee, its successors, assigns, and legal representatives or nominees. I covenant with Assignee, its successors, assigns, and legal representatives, that the interest and property hereby conveyed is free from all prior assignment, grant, mortgage, license, or other encumbrance. 12/21/12 Ariel Anbar Signature by: STATE OF ARIZONA COUNTY OF MARNIER I, Thomas a Notary Public in and for the County and State aforesaid, do hereby certify that ARIEL ANBAR, whose name is subscribed to the foregoing instrument, appeared before me this day in person and acknowledged that he/she signed, sealed and delivered the instrument as his/her free and voluntary act and deed for the uses and purposes therein set forth. 21_ day of <u>December</u>, 2012. Given under my hand an notarial seal this Signature of Notar

INNA THOMAS Notary Public—Arizona Maricopa County Expires 12/14/2014

AzTE M10-102L

For good and valuable consideration, the receipt of which is hereby acknowledged, I, JOSEPH SKULAN, (Assignor) of Lodi, Wisconsin, have sold, assigned, and transferred, and do hereby sell, assign, and transfer unto ARIZONA BOARD OF REGENTS, a body corporate of the State of Arizona Acting for and on behalf of Arizona State University (Assignee), a non-profit organization of the State of Arizona, having its principal office in Scottsdale, State of Arizona, United States of America, and its successors, assigns, and legal representatives, the entire right, title, and interest in and to certain invention(s) entitled ISOTOPIC BIOMARKERS FOR RAPID ASSESSMENT OF BONE MINERAL BALANCE IN BIOMEDICAL APPLICATIONS, which is described, illustrated, and claimed in an application for Letters Patent of the United States of America, Application No. 13/703,103 _____, filed on _______December 10 ______, 2012, claiming the benefit of U.S. Patent Application No. 61/353,267, filed June 10, 2010, and International Patent Application No. PCT/US2011/039780, filed June 9, 2011, together with the entire right, title and interest in and to any Letters Patent which may be issued upon said application, and in and to any continuation, division, reissue, reexamination, extension, renewal, or substitute thereof, and in and to any patent which may grant from such application.

I hereby authorize and request all government authorities in any country to issue patent(s) upon the aforesaid application, continuation, division, reissue, reexamination, extension, renewal, or substitute, to Assignee, for the sole use and behalf of Assignee, its successors, assigns, and legal representatives, to the full end of the term for which the patent(s) may be granted, the same as they would have been held and enjoyed by me had this assignment not been made.

l agree that, when requested, I will, without charge to Assignee, but at its expense, sign all papers, take all rightful oaths, and do all acts which may be necessary, desirable, or convenient for securing and maintaining patents for the invention(s) in any and all countries and for vesting title thereto in Assignee, its successors, assigns, and legal representatives or nominees.

For good and valuable consideration, the receipt of which is hereby acknowledged, I, GWYNETH GORDON, (Assignor) of Phoenix, Arizona, have sold, assigned, and transferred, and do hereby sell, assign, and transfer unto ARIZONA BOARD OF REGENTS, a body corporate of the State of Arizona Acting for and on behalf of Arizona State University (Assignee), a non-profit organization of the State of Arizona, having its principal office in Scottsdale, State of Arizona, United States of America, and its successors, assigns, and legal representatives, the entire right, title, and interest in and to certain invention(s) entitled ISOTOPIC BIOMARKERS FOR RAPID ASSESSMENT OF BONE MINERAL BALANCE IN BIOMEDICAL APPLICATIONS, which is described, illustrated, and claimed in an application for Letters Patent of the United States of America, Application No. 13/703,103, filed onDecember 10, 2012, claiming the benefit of U.S. Patent Application No. 61/353,267, filed June 10, 2010, and International Patent Application No. PCT/US2011/039780, filed June 9, 2011, together with the entire right, title and interest in and to any Letters Patent which may be issued upon said application, and in and to any continuation, division, reissue, reexamination, extension, renewal, or substitute thereof, and in and to any patent which may grant from such application.		
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I agree that, when requested, I will, without charge to Assignee, but at its expense, sign all papers, take all rightful oaths, and do all acts which may be necessary, desirable, or convenient for securing and maintaining patents for the invention(s) in any and all countries and for vesting title thereto in Assignee, its successors, assigns, and legal representatives or nominees.		
I covenant with Assignee, its successors, assigns, and legal representatives, that the interest and property hereby conveyed is free from all prior assignment, grant, mortgage, license, or other encumbrance.		
Signature by: Gwyneth Gordon 12/17/2012 Date		
STATE OF ARIZONA) COUNTY OF Maricopa)		
i, <u>Fizabeth rear Transfor</u> , a Notary Public in and for the County and State aforesaid, do hereby certify that GWYNETH GORDON, whose name is subscribed to the foregoing instrument, appeared before me this day in person and acknowledged that he/she signed, sealed and delivered the instrument as his/her free and voluntary act and deed for the uses and purposes therein set forth.		
Given under my hand an notarial seal this 17th day of <u>Acember</u> , 2012.		

A-TE M10.1001

TO ME SON THOME SON

For good and valuable consideration, the receipt of which is hereby acknowledged. I. JENNIFER MORGAN, (Assignor) of Phoenix, Arizona, have sold, assigned, and transferred, and do hereby sell, assign, and transfer unto ARIZONA BOARD OF REGENTS, a body corporate of the State of Arizona Acting for and on behalf of Arizona State University (Assignee), a non-profit organization of the State of Arizona, having its principal office in Scottsdale, State of Arizona, United States of America, and its successors, assigns, and legal representatives, the entire right, title, and interest in and to certain invention(s) entitled ISOTOPIC BIOMARKERS FOR RAPID ASSESSMENT OF BONE MINERAL BALANCE IN BIOMEDICAL APPLICATIONS, which is described, illustrated, and claimed in an application for Letters Patent of the United States of America, Application No. <u>13/703.103</u>, filed on <u>December 10</u>, 2012, claiming the benefit of U.S. Patent Application No. 61/353,267, filed June 10, 2010, and International Patent Application No. PCT/US2011/039780, filed June 9, 2011, together with the entire right, title and interest in and to any Letters Patent which may be issued upon said application, and in and to any continuation, division, reissue, reexamination, extension, renewal, or substitute thereof, and in and to any patent which may grant from such application.

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I covenant with Assignee, its successors, assigns, and legal representatives, that the interest and property bereby conveyed is free from all prior assignment, grant, mortgage, license, or other encumbrance.

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Affry	12/17/12
Signature by: Jennifer Morgan	Date
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STATE OF ARIZONA TOXOS)	
COUNTY OF Ham's	
COUNTY OF Man'S	
instrument, appeared before me this day in person a delivered the instrument as his/her free and voluntar	, a Notary Public in and for the County and State AN, whose name is subscribed to the foregoing and acknowledged that he/she signed, sealed and ry act and deed for the uses and purposes therein set
forth.	10th 0 1
Given under mythand an notarial seal this	day of Vocamber, 2012.
WILLIAM AND A STORY	
Given under mythand an notarial seal this	Mans C. Mas
Z Z Z C Z Z	Signature of Notary
Samuel Land	
EXPIRES	
AZTE M10-102L 77-2010 A-27-2010 MINIT	
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PATENT **REEL: 029658 FRAME: 0763**

RECORDED: 01/18/2013