# 502857457 06/18/2014

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT2904054

SUBMISSION TYPE:		NEW ASSIGNMENT			
NATURE OF CONVEYANCE:		ASSIGNMENT	ASSIGNMENT		
CONVEYING PARTY D	ΑΤΑ				
		Name	Executio	Execution Date	
A. SAM BEDDAR			09/15/201	09/15/2011	
TINA MARIE BRIERE			04/18/201	4	
LOUIS ARCHAMBAULT			06/18/201	4	
RECEIVING PARTY DA	ТА				
Name:	1	OF REGENTS, THE UNIVERSITY O	F TEXAS SYSTEM		
Street Address:		ST 7TH STREET			
City:	AUSTIN	1			
State/Country:	TEXAS				
Postal Code:	78701				
Property Type Application Number: 1314		Number 13143567	-		
CORRESPONDENCE D	ΑΤΑ				
Fax Number:		(512)334-2999			
		the e-mail address first; if that is un ; if that is unsuccessful, it will be se		sent	
Phone:		(512) 334-2900 norman@phiplaw.com			
Email:					
Correspondent Name: Address Line 1:		JENNIFER NORMAN-WOLFE, PARKI 1120 S. CAPITAL OF TEXAS HWY.	ER HIGHLANDER		
Address Line 1: Address Line 2:		BUILDING ONE, SUITE 200			
Address Line 4: AUSTIN, TEXAS 78746					
ATTORNEY DOCKET N	JMBER:	UTSC.P0997US	UTSC.P0997US		
NAME OF SUBMITTER:		JENNIFER NORMAN-WOLFE	JENNIFER NORMAN-WOLFE		
	SIGNATURE: /Jennifer Norman-Wolfe/				
SIGNATURE:		06/18/2014			
SIGNATURE: DATE SIGNED: Total Attachments: 9		06/18/2014			
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#### ASSIGNMENT

We, A. Sam BEDDAR, of 4116 Emory Avenue, Houston, Texas 77005, a citizen of United States of America, Tina Marie BRIERE, of 4058 Aberdeen Way, Houston, Texas 77025, a citizen of United States of America, and Louis ARCHAMBAULT, of 102B Des Cedres, Québec City, QC, G1L 1M9, Canada, a citizen of Canada, have invented **REAL-TIME IN VIVO RADIATION DOSIMETRY USING SCINTILLATION DETECTORS**. This is an Assignment of the following rights, title and interest (check all that apply):

United States of America rights, title and interest in the invention

Foreign rights, title and interest in the invention

An application to the Commissioner for Patents of the United States of America filed herewith

United States Provisional Patent Application Serial No. 61/143,294, filed on January 8, 2009

United States Patent Application Serial No. 13/143,567 filed on July 7, 2011

United States Patent No(s).

International (PCT) Patent Application Serial No. PCT/US2010/020366, filed on January 7, 2010

We were employed by The University of Texas M. D. Anderson Cancer, a State Institution of Higher Education established under the laws of the State of Texas within The University of Texas System, at the time the invention was made. The conditions under which said invention was made are such as to entitle the Board of Regents, The University of Texas System (hereinafter SYSTEM), having a place of business at 201 West 7<sup>th</sup> St., Austin, TX 78701, to the entire right, title, and interest in the invention, in the United States and all other countries throughout the world.

For good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, we, the undersigned, have voluntarily sold, assigned, and transferred and do voluntarily sell, assign, and transfer to SYSTEM, and successors and assigns, our full and exclusive right, title and interest in and to the invention(s) disclosed in said application throughout the world, including the United States and its territorial possessions and in all foreign countries, including all rights to claim priority, in and to any and all improvements which are disclosed in said application. This includes an assignment of all Letters Patent that may be granted on the invention in the United States of America and all countries throughout the world, and any divisional, renewal, continuation in whole or in part, substitution, conversion, reexamination, reissue, prolongation or extension thereof; and the right to claim priority from the patent application as provided for by United States law, the Patent Cooperation Treaty, the European Patent Convention, the Paris Convention, or other applicable law.

We have authorized SYSTEM to file and prosecute this patent application, as well as any corresponding international or national applications that claim priority from it. SYSTEM has the right to select attorneys or agents of its choice to prosecute at its discretion these applications on its behalf. We authorize and request the issuance of said Letters Patent to SYSTEM, as assignee of the entire right, title, and interest to be held as fully and entirely as the same would have been held by us had this assignment not been made.

We grant SYSTEM, the power to insert on this Assignment any further information that may be necessary or desirable in order to comply with all applicable legal requirements, including the rules of the United States Patent and Trademark Office, for submitting and recording this document.

We warrant that there are no outstanding assignments, grants, liens, encumbrances, or agreements either written, oral, or implied that will impair, diminish, limit, or abridge the interest herein conveyed at the time of the execution of the present assignment. We shall not communicate nor cooperate in any manner with any third party, other than SYSTEM, that claims any rights in and to said invention(s) and said application.

We also hereby assign all rights, title and interest to any improvements related to said invention(s) to SYSTEM and agree to promptly and fully communicate to SYSTEM any facts and information known to us respecting any improvements related to said invention(s) and said application while any patent application anywhere in the world is still pending that claims priority, whether directly or indirectly, from said invention(s) or said application(s). We will maintain any such facts and information in confidence and will only reveal such facts and information to SYSTEM or its assigns.

We also covenant that we will communicate to SYSTEM, its representatives, assigns or agents, any facts known to us respecting said invention(s) or said application(s), and to testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing and reissue applications, make all rightful oaths, provide all requested documents, and do everything reasonably possible to aid SYSTEM and its assigns to obtain and enforce proper patent protection for said invention(s) or said application(s) in the United States or any foreign country. These provisions are binding upon our heirs, legal representatives, administrators and assigns.

We grant SYSTEM, the power to insert on this Assignment any further information that may be necessary or desirable in order to comply with all applicable legal requirements, including the rules of the United States Patent and Trademark Office, for submitting and recording this document.

IN TESTIMONY WHEREOF, Assignors have signed their names on the dates indicated.

\_\_ \_) \_) ss. Dated: <u>Sept 15, 2011</u> STATE OF TEXAS COUNTY OF Harris

リン Jed Car Sam BEDDAR

This 15 day of Septender 2011, before me personally came the above-named A. Sam BEDDAR, who executed the foregoing Assignment in my presence, and who acknowledged to me that it was executed under that person's own free will for the purposes set forth therein.

Friday	
SAN SAL	PATTI J. WILSON
	Notary Public, State of Texas
	My Commission Expires
<b>ASBAL</b>	February 20, 2013

÷

HOLMES COUNTY YX My commission expires:  $\partial - 2 - 13$ 

PATENT REEL: 033131 FRAME: 0432 IN TESTIMONY WHEREOF, Assignors have signed their names on the dates indicated.

Dated:	
STATE OF	)
	) ss.
COUNTY OF	)

Tina Marie BRIERE

This day of 20\_, before me personally came the above-named Tina Marie BRIERE, who executed the foregoing Assignment in my presence, and who acknowledged to me that it was executed under that person's own free will for the purposes set forth therein.

Notary Public for \_\_\_\_\_

[SEAL]

My commission expires:

IN TESTIMONY WHEREOF, Assignors have signed their names on the dates indicated.

Louis ARCHAMBAULT

This day of 20\_\_, before me personally came the above-named Louis ARCHAMBAULT, who executed the foregoing Assignment in my presence, and who acknowledged to me that it was executed under that person's own free will for the purposes set forth therein.

Notary Public for \_\_\_\_\_

[SEAL]

My commission expires: \_\_\_\_\_

#### ASSIGNMENT

We, A. Sam BEDDAR, of 4116 Emory Avenue, Houston, Texas 77005, a citizen of United States of America, Tina Marie BRIERE, of 4058 Aberdeen Way, Houston, Texas 77025, a citizen of United States of America, and Louis ARCHAMBAULT, of 102B Des Cedres, Québec City, QC, G1L 1M9, Canada, a citizen of Canada, have invented **REAL-TIME IN VIVO RADIATION DOSIMETRY USING SCINTILLATION DETECTORS**. This is an Assignment of the following rights, title and interest (check all that apply):

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For good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, we, the undersigned, have voluntarily sold, assigned, and transferred and do voluntarily sell, assign, and transfer to SYSTEM, and successors and assigns, our full and exclusive right, title and interest in and to the invention(s) disclosed in said application throughout the world, including the United States and its territorial possessions and in all foreign countries, including all rights to claim priority, in and to any and all improvements which are disclosed in said application. This includes an assignment of all Letters Patent that may be granted on the invention in the United States of America and all countries throughout the world, and any divisional, renewal, continuation in whole or in part, substitution, conversion, reexamination, reissue, prolongation or extension thereof; and the right to claim priority from the patent application as provided for by United States law, the Patent Cooperation Treaty, the European Patent Convention, the Paris Convention, or other applicable law.

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{00131734}

We grant SYSTEM, the power to insert on this Assignment any further information that may be necessary or desirable in order to comply with all applicable legal requirements, including the rules of the United States Patent and Trademark Office, for submitting and recording this document.

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IN TESTIMONY WHEREOF, Assignors have signed their names on the dates indicated.

A. Sam BEDDAR

This \_\_\_\_\_day of \_\_\_\_\_20\_\_, before me personally came the above-named A. Sam BEDDAR, who executed the foregoing Assignment in my presence, and who acknowledged to me that it was executed under that person's own free will for the purposes set forth therein.

	Notary Public for
[SEAL]	My commission expires:

{00131734}

IN TESTIMONY WHEREOF, Assignors have signed their names on the dates indicated.

Dated:	april	18,	2014		
STATE OF	7	TE,	XAS	)	
COUNTY	OF	HA	eeis	) ss.	

Juna Marie Briere

Tina Marie BRIERE

This  $18^{\text{TH}}$  day of <u>APUL</u> 2014, before me personally came the above-named Tina Marie BRIERE, who executed the foregoing Assignment in my presence, and who acknowledged to me that it was executed under that person's own free will for the purposes set forth therein.

Notary Public for STATE OF TEXAS

My commission expires: AUGUST 24, 2017



IN TESTIMONY WHEREOF, Assignors have signed their names on the dates indicated.

Louis ARCHAMBAULT

This day of \_\_\_\_\_\_20\_, before me personally came the above-named Louis ARCHAMBAULT, who executed the foregoing Assignment in my presence, and who acknowledged to me that it was executed under that person's own free will for the purposes set forth therein.

Witness

#### ASSIGNMENT

We, A. Sam BEDDAR, of 4116 Emory Avenue, Houston, Texas 77005, a citizen of United States of America, Tina Marie BRIERE, of 4058 Aberdeen Way, Houston, Texas 77025, a citizen of United States of America, and Louis ARCHAMBAULT, of 102B Des Cedres, Québec City, QC, G1L 1M9, Canada, a citizen of Canada, have invented **REAL-TIME IN VIVO RADIATION DOSIMETRY USING SCINTILLATION DETECTORS**. This is an Assignment of the following rights, title and interest (check all that apply):

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PATENT REEL: 033131 FRAME: 0437 We grant SYSTEM, the power to insert on this Assignment any further information that may be necessary or desirable in order to comply with all applicable legal requirements, including the rules of the United States Patent and Trademark Office, for submitting and recording this document.

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IN TESTIMONY WHEREOF, Assignors have signed their names on the dates indicated.

Dated:

STATE OF \_\_\_\_\_) ss.

A. Sam BEDDAR

) s: COUNTY OF \_\_\_\_\_)

This day of 20, before me personally came the above-named A. Sam BEDDAR, who executed the foregoing Assignment in my presence, and who acknowledged to me that it was executed under that person's own free will for the purposes set forth therein.

Notary Public for \_\_\_\_\_

[SEAL]

My commission expires:

{00131734;

PATENT REEL: 033131 FRAME: 0438 IN TESTIMONY WHEREOF, Assignors have signed their names on the dates indicated.

Tina Marie BRIERE

This \_\_\_\_\_day of \_\_\_\_\_20\_, before me personally came the above-named Tina Marie BRIERE, who executed the foregoing Assignment in my presence, and who acknowledged to me that it was executed under that person's own free will for the purposes set forth therein.

Notary Public for \_\_\_\_\_

[SEAL]

My commission expires:

IN TESTIMONY WHEREOF, Assignors have signed their names on the dates indicated.

Dated: <u>2014-06-(8</u>

the second se

\_\_\_\_\_

### Louis ARCHAMBAULT

This  $\frac{16}{3}$  day of  $\frac{\int UAC}{20 \, bf}$ , before me personally came the above-named Louis ARCHAMBAULT, who executed the foregoing Assignment in my presence, and who acknowledged to me that it was executed under that person's own free will for the purposes set forth therein.

Ghali ale

Witness

(\$\$6131734}

### PATENT REEL: 033131 FRAME: 0439

**RECORDED: 06/18/2014**