502730013 03/20/2014

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
QIANG XIONG	03/10/2014
JIANYI ZHANG	03/19/2014

RECEIVING PARTY DATA

Name:	REGENTS OF THE UNIVERSITY OF MINNESOTA	
Street Address:	450 MCNAMARA ALUMNI CENTER	
Internal Address:	200 OAK STREET S.E.	
City:	MINNEAPOLIS	
State/Country:	MINNESOTA	
Postal Code:	55455-2070	

PROPERTY NUMBERS Total: 2

Property Type	Number
Application Number:	61762619
Application Number:	14175518

CORRESPONDENCE DATA

Fax Number:

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.

Email: sara.kerstein@quarles.com

Correspondent Name: SARA J. KERSTEIN

Address Line 1:411 E. WISCONSIN AVENUEAddress Line 2:QUARLES & BRADY, LLP

Address Line 4: MILWAUKEE, WISCONSIN 53202

ATTORNEY DOCKET NUMBER:	920171.00054	
NAME OF SUBMITTER:	SARA J. KERSTEIN	
SIGNATURE:	/Sara J. Kerstein/	
DATE SIGNED:	03/20/2014	

Total Attachments: 2

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PATENT 502730013 REEL: 032481 FRAME: 0078

ASSIGNMENT

WHEREAS, the undersigned have made certain inventions which are described in an application for Letters Patent of the United States entitled: METHOD FOR IN VIVO MEASUREMENT OF ADENOSINE TRIPHOSPHATE HYDROLOSIS RATE USING DOUBLE SATURATION TRANSFER MAGNETIC RESONANCE IMAGING AND SPECTROSCOPY under U.S. Provisional Application No. 61/762,619 filed February 8, 2013, and SYSTEM AND METHOD FOR ASSESSING ADENOSINE TRIPHOSPHATE HYDROLYSIS RATE USING DOUBLE SATURATION TRANSFER MAGNETIC RESONANCE IMAGING AND SPECTROSCOPY under U.S. Application No. 14/175,518, filed February 7, 2014, and

WHEREAS, REGENTS OF THE UNIVERSITY OF MINNESOTA, a corporation organized and existing under and by virtue of the laws of the State of Minnesota, and having a business address of 450 McNamara Alumni Center, 200 Oak Street S.E., Minneapolis, MN 55455-2070 is desirous of acquiring the entire interest in said inventions throughout the United States of America and the territories thereof, for all other countries and under all international agreements,

NOW, THEREFORE, for and in consideration of One Dollar (\$1.00), and other good and valuable consideration, receipt whereof is hereby acknowledged, the undersigned hereby sell(s), assign(s) and transfer(s) unto said Company, its successors and assigns, the entire right, title and interest throughout the United States of America and the territories thereof, for all foreign countries and under all international agreements in and to said inventions, the aforesaid application, all other applications hereafter filed in the United States, in any other country, or under any international agreement based in whole or in part on said inventions, and all Letters Patents granted upon said applications by the United States, by any other country or under any international agreement, and do hereby authorize and request the Commissioner of Patents and Trademarks to issue said Letters Patent to said Company.

The undersigned further grant to said Company, its successors and assigns, the right to claim for any of said applications the full benefits and priority rights of any international agreement between the United States and any foreign country or countries of between any other countries. The undersigned hereby warrants that they have the full right to make the conveyance herein, and hereby covenants that the heirs, legal representatives and assigns of the undersigned, will when requested, communicate to said Company, its representatives, successors and assigns, all facts known respecting said inventions, execute all divisional, continuing, reissue, reexamination and foreign or international applications, together with individual assignment therefore, make all rightful oaths, sign all lawful papers, testify in any legal proceeding and generally do everything possible to aid said Company, its successors ands assigns, in the obtaining of Letters Patent.

IN TESTIMONY WHEREOF, the undersigned have hereunto executed this assignment at the location and on the date indicated below.

Signature:	STATE OF:
Name: Qiang Xiong	county of: <u>//age/ Sistes</u>
Address: <u>ASO Massachusetts Ave.</u> (ambridge, MA,02159	
Date:3/19/1245	
Before me on this day of known to be the person named in the foregoing ass therefore to be his/her free act and deed.	. 2014 came Qiang Xiong, to me signment and he/she acknowledges his/her execution
(SEAL)	Notary Public,
	State of

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3/19/20	t 4 1
Signature:	STATE OF: Minnesota
Name: Jianyl Zhang	COUNTY OF: Anoka
Address: 401 & River Pkwy. Rm 2	268
Minneapolis, MN 5545	55
Date: $3/19/20/4$	
Before me on this $19^{\frac{1}{100}}$ day of $\frac{1}{100}$ known to be the person named in the foregoing assign therefore to be his/her free act and deed.	arch, 2014 came Jianyl Zhang, to me ment and he/she acknowledges his/her execution
(SEAL)	Wendykin Jarkyson
	Notary Public
Everal Marie Consistence and Association	State of Minnesota