

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
Stylesheet Version v1.2

EPAS ID: PAT4496489

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
MICHAEL I. MILLER	06/26/2017
SUSUMU MORI	05/03/2017
ANQI QU	06/02/2017
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	THE JOHNS HOPKINS UNIVERSITY
<b>Street Address:</b>	3400 N. CHARLES STREET
<b>City:</b>	BALTIMORE
<b>State/Country:</b>	MARYLAND
<b>Postal Code:</b>	21218
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	12999866
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	
<i>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.</i>	
<b>Phone:</b>	202-344-4000
<b>Email:</b>	ipdocketing@venable.com, aywilson@venable.com, echan@venable.com
<b>Correspondent Name:</b>	HENRY J. DALEY, PH.D.
<b>Address Line 1:</b>	VENABLE LLP
<b>Address Line 2:</b>	P.O. BOX 1014
<b>Address Line 4:</b>	WASHINGTON, D.C. 20043-9998
<b>ATTORNEY DOCKET NUMBER:</b>	002240.293464
<b>NAME OF SUBMITTER:</b>	HENRY J. DALEY, PH.D.
<b>SIGNATURE:</b>	/HENRY J. DALEY, PH.D./
<b>DATE SIGNED:</b>	07/10/2017
<b>Total Attachments: 6</b>	
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**WORLDWIDE ASSIGNMENT**

**WHEREAS, Michael I. MILLER, Susumu MORI, and Anqi QIU**, hereinafter (collectively) referred to as the Assignor, have invented a certain improvement relating to **AUTOMATED SURFACE-BASED ANATOMICAL ANALYSIS BASED ON ATLAS-BASED SEGMENTATION OF MEDICAL IMAGING**, for which said Assignor has caused an application for a United States Patent to be prepared,

[ X ] said Application having been filed in the United States Patent and Trademark Office on December 17, 2010, and given Application Number: 12/999,866.

[ X ] said U. S. Provisional Application having been filed in the U.S. Patent and Trademark Office on July 7, 2008, and given Application No. 61/134,182.

[ X ] said application having been filed under the Patent Cooperation Treaty on July 7, 2009 and given Application No. PCT/US2009/049819, the United States of America having been designated.

**AND WHEREAS, The Johns Hopkins University, 3400 N. Charles Street, Baltimore, Maryland 21218**, hereinafter referred to as the Assignee, is desirous of acquiring the entire right, title and interest in and to said application, including any divisions and continuations thereof, and in and to said invention and any patents which may be granted therefor, including any renewals, reissues and prolongations thereof;

**NOW THIS WITNESSETH**, that for and in consideration of One Dollar (\$1.00), and other good and valuable consideration paid by Assignee to Assignor, the receipt and sufficiency of which is hereby acknowledged, Assignor hereby assigns, sells and transfers, and has assigned, sold, and transferred to Assignee, its successors and assigns, the entire and exclusive right, title, and interest for the United States in and to the invention, the application, and any patents which may be granted therefor, including any and all divisions, continuations, in whole or in part, substitutions, renewals, reissues, reexaminations, and extensions thereof, and all applications claiming priority therefrom; and Assignor authorizes and requests the Commissioner of Patents and Trademarks to issue all patents for the invention, or patents resulting therefrom, insofar as their interest is concerned, to Assignee; to have, hold, exercise, and enjoy, with all the rights, powers, privileges, and advantages in anywise arising therefrom or appertaining thereto, for and during the term or terms of any and all such patents when granted, for the use and benefit of said assignee, and said assignee's successors and assigns, in as ample and beneficial a manner as Assignor might or could have held and enjoyed the same, if this assignment had not been made.

Assignor further hereby assigns, sells and transfers, and has assigned, sold, and transferred to Assignee, its successors and assigns, the entire right, title and interest in all countries of the world, in and to the invention and in and to the application and all patents which may be granted therefor, and all national applications, regional applications, divisions, reissues, substitutions, continuations, in whole or in part, re-examinations, and extensions thereof, including the right to file applications and obtain patents for the invention in its own name, in all countries and including all rights of priority in all countries under the terms of any applicable international convention, insofar as its interest is concerned; and the Assignor hereby authorizes and requests the applicable patent office in each country of the world to issue all patents for the invention, or patents resulting therefrom, insofar as its interest is concerned, to the Assignee, to have and to hold for the sole and exclusive use and benefit of the Assignee, its successors and assigns, to the full end of the term or terms for which any and all of such patents for the invention may issue, to the same extent as the Assignor would hold and enjoy if this Assignment had not been made.

The Assignor further agrees to execute any and all patent applications, assignments, affidavits, and any other papers in connection therewith necessary to perfect such patent rights, and also agrees, at the request of the Assignee, to testify in any legal proceedings, sign all lawful papers, make all lawful oaths, and generally do everything possible to aid said Assignee, its successors and assigns, to obtain, maintain and enforce proper patent protection for said invention.

IN WITNESS WHEREOF, each individual collectively referred to as Assignor has caused this Assignment to be executed.

EXECUTED this 26 day of June, 2017

ASSIGNOR: **Michael I. MILLER**

Signature: Michael I. Miller  
Name: Michael I. Miller

WITNESS:

Signature: \_\_\_\_\_  
Name: \_\_\_\_\_  
Address: \_\_\_\_\_  
\_\_\_\_\_

EXECUTED this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_\_

ASSIGNOR: **Susumu MORI**

Signature: \_\_\_\_\_  
Name: \_\_\_\_\_

WITNESS:

Signature: \_\_\_\_\_  
Name: \_\_\_\_\_  
Address: \_\_\_\_\_  
\_\_\_\_\_

EXECUTED this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_\_

ASSIGNOR: **Anqi QIU**

Signature: \_\_\_\_\_  
Name: \_\_\_\_\_

WITNESS:

Signature: \_\_\_\_\_  
Name: \_\_\_\_\_  
Address: \_\_\_\_\_  
\_\_\_\_\_

DC1DCS1#423475

**WORLDWIDE ASSIGNMENT**

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IN WITNESS WHEREOF, each individual collectively referred to as Assignor has caused this Assignment to be executed.

EXECUTED this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_

ASSIGNOR: **Michael I. MILLER**


Signature: \_\_\_\_\_  
Name: \_\_\_\_\_

WITNESS:


Signature: \_\_\_\_\_  
Name: \_\_\_\_\_  
Address: \_\_\_\_\_  
\_\_\_\_\_

EXECUTED this 3 day of May, 2017

ASSIGNOR: **Susumu MORI**

Signature:   
Name: Susumu Mori

WITNESS:

Signature:   
Name: Noriko Mori  
Address: 9890 Carrigan Dr. Ellicott City,  
MD 21042

EXECUTED this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_

ASSIGNOR: **Anqi QIU**

Signature: \_\_\_\_\_  
Name: \_\_\_\_\_

WITNESS:

Signature: \_\_\_\_\_  
Name: \_\_\_\_\_  
Address: \_\_\_\_\_  
\_\_\_\_\_

DC1DOCS1#422475

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EXECUTED this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_

ASSIGNOR: Michael I. MILLER

Signature: \_\_\_\_\_  
Name: \_\_\_\_\_

WITNESS:

Signature: \_\_\_\_\_  
Name: \_\_\_\_\_  
Address: \_\_\_\_\_  
\_\_\_\_\_

EXECUTED this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_

ASSIGNOR: Susumu MORI

Signature: \_\_\_\_\_  
Name: \_\_\_\_\_

WITNESS:

Signature: \_\_\_\_\_  
Name: \_\_\_\_\_  
Address: \_\_\_\_\_  
\_\_\_\_\_

EXECUTED this 2 day of June, 2017

ASSIGNOR: Anqi QIU

Signature: Anqi Qiu  
Name: Anqi

WITNESS:

Signature: chen n  
Name: chen nanguang  
Address: 10 Kent Ridge Drive Singapore

DCIDOC1#422475