

## PATENT ASSIGNMENT

Electronic Version v1.1  
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| SUBMISSION TYPE:   | NEW ASSIGNMENT               |               |                |                     |            |              |            |            |            |
|--|------------------------------|---------------|----------------|---------------------|------------|--------------|------------|------------|------------|
| NATURE OF CONVEYANCE:  | ASSIGNMENT                   |               |                |                     |            |              |            |            |            |
| CONVEYING PARTY DATA   |                              |               |                |                     |            |              |            |            |            |
| <table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>David D Nolte</td> <td>02/26/2012</td> </tr> <tr> <td>John J Turek</td> <td>12/08/2011</td> </tr> <tr> <td>Kwan Jeong</td> <td>07/24/2012</td> </tr> </tbody> </table> |                              | Name          | Execution Date | David D Nolte       | 02/26/2012 | John J Turek | 12/08/2011 | Kwan Jeong | 07/24/2012 |
| Name   | Execution Date               |               |                |                     |            |              |            |            |            |
| David D Nolte  | 02/26/2012                   |               |                |                     |            |              |            |            |            |
| John J Turek   | 12/08/2011                   |               |                |                     |            |              |            |            |            |
| Kwan Jeong   | 07/24/2012                   |               |                |                     |            |              |            |            |            |
| RECEIVING PARTY DATA   |                              |               |                |                     |            |              |            |            |            |
| Name:  | Purdue Research Foundation   |               |                |                     |            |              |            |            |            |
| Street Address:  | 1281 Win Hentschel Boulevard |               |                |                     |            |              |            |            |            |
| City:  | West Lafayette               |               |                |                     |            |              |            |            |            |
| State/Country:   | INDIANA                      |               |                |                     |            |              |            |            |            |
| Postal Code:   | 47906                        |               |                |                     |            |              |            |            |            |
| PROPERTY NUMBERS Total: 1  |                              |               |                |                     |            |              |            |            |            |
| <table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>12874855</td> </tr> </tbody> </table>  |                              | Property Type | Number         | Application Number: | 12874855   |              |            |            |            |
| Property Type  | Number                       |               |                |                     |            |              |            |            |            |
| Application Number:  | 12874855                     |               |                |                     |            |              |            |            |            |
| CORRESPONDENCE DATA  |                              |               |                |                     |            |              |            |            |            |
| Fax Number:  | 3176382139                   |               |                |                     |            |              |            |            |            |
| Phone:   | 317-638-2922                 |               |                |                     |            |              |            |            |            |
| Email:   | srogers@maginot.com          |               |                |                     |            |              |            |            |            |
| <i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i>  |                              |               |                |                     |            |              |            |            |            |
| Correspondent Name:  | Maginot, Moore & Beck LLP    |               |                |                     |            |              |            |            |            |
| Address Line 1:  | 111 Monument Circle          |               |                |                     |            |              |            |            |            |
| Address Line 2:  | Suite 3250                   |               |                |                     |            |              |            |            |            |
| Address Line 4:  | INDIANAPOLIS, INDIANA 46204  |               |                |                     |            |              |            |            |            |
| ATTORNEY DOCKET NUMBER:  | 1743-0100 (PRF65062)         |               |                |                     |            |              |            |            |            |
| NAME OF SUBMITTER:   | Michael D. Beck              |               |                |                     |            |              |            |            |            |
| Total Attachments: 7   |                              |               |                |                     |            |              |            |            |            |

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**ASSIGNMENT**

**WHEREAS, WE, DAVID D. NOLTE**, citizen of the United States; **JOHN J. TUREK**, citizen of the United States; **KWAN JEONG**, citizen of Korea; (hereinafter "Assignors"), have made or developed a technology, generally known as:

**"METHOD AND APPARATUS FOR VOLUMETRIC MOTILITY ASSAYS IN TISSUE ARRAYS",**

which is further described in a United States patent application filed on September 2, 2010 and accorded Application No. 12/874,855 ("Technology"); and

**WHEREAS**, Purdue Research Foundation, a statutory body corporate formed and existing under the Indiana Foundation or Holding Companies Act of 1921, having a place of business at *1281 Win Hentschel Blvd, West Lafayette, IN 47906* (hereinafter "Assignee"), is desirous of accepting and assuming all such right, title, and interests of the Assignor.

**NOW, THEREFORE**, for good and valuable consideration, receipt of which is hereby acknowledged, the Assignor(s) do hereby sell, transfer, convey, assign and deliver unto the Assignee, its successors, assigns and legal representatives, any and all intellectual property rights related to the Technology, including but not limited to: all precursors, portions, and works in progress with respect thereto and all inventions, works of authorship, masks works, technology, information, know-how, materials and tools relating thereto or to the development, support or maintenance thereof; all copyright, patent rights, trade secret rights, trademark rights, mask works rights, and all other intellectual property rights and all business, contract rights and goodwill in, incorporated or embodied in, used to develop, or related to any of the foregoing and any registrations and applications for registrations of the foregoing throughout the United States of America and the world and any and all other applications arising therefrom, including any and all divisions and continuations of the Technology, and any and all patents to be issued and obtained therefore and thereon, in the United States and throughout the world, including all

reissues, substitutions, supplements, and extensions thereof (collectively, the "Intellectual Property");

**AND WE HEREBY** agree to communicate to Assignee or its representative any facts known to us respecting the Technology whether or not patentable, which we may conceive, develop, make, produce or reduce to practice in whole or in part as a result of any employment, research, or activity involving or relating to the use of Purdue University resources; and agree to sign all lawful documents and make all rightful oaths and declarations relating to said Technology and Intellectual Property; authorize Assignee to insert herein the date of application, serial number, date of registration, and registration number of patents issued once known; and agree to otherwise aid ASSIGNEE as necessary and desirable to:

1. Obtain, enforce, and maintain any issued letters patent in the United States or throughout the world, when reasonably requested to do so by Assignee, including but not limited to executing, acknowledging, and delivering to Assignee such written documents and instruments as Assignee requests and giving testimony in support of Assignee's inventorship, as may be necessary in Assignee's opinion to obtain and maintain patents in the United States of America and throughout the world;

2. Secure or aid in securing and maintaining copyright protection in the Intellectual Property and assist Assignee or its nominees in filing applications to register copyright in the name of Assignee as owner in such Intellectual Property; and

3. Execute, acknowledge, and deliver to Assignee at its expense, such written documents and instruments and do such other acts as may be necessary in the opinion of Assignee, to vest the entire rights, title, and interests in and to the Intellectual Property to Assignee and to confirm the complete ownership thereof by Assignee.

**AND WE HEREBY** authorize ASSIGNEE to take any and all action necessary to effectuate this Assignment, including but not limited to, the filing of the Assignment with the U.S. Patent and Trademark Office and U.S. Copyright Office.

**AND WE HEREBY** authorize and request the Director of the U.S. Patent and Trademark Office or any other proper officer or agency throughout the world to issue any and all said letters patent to Assignee.

**AND WE HEREBY** warrant and covenant that *we* have full rights to convey the entire right, title and interest herein assigned and that *we* have not executed and will not execute any instrument or assignment in conflict herewith;

This Assignment shall be binding upon Assignor(s) and their heirs, successors, and assigns. Should any term of this Assignment be found invalid or unenforceable, it shall not affect the validity or enforceability of any other term of this Assignment. The laws of the State of Indiana will govern the interpretation, validity, and effect of this Assignment, without regard to the place of making or to the place of performance.

*[SIGNATURES ON NEXT PAGE]*

IN WITNESS WHEREOF, *We* have hereunto set our hands and seals.

ASSIGNOR:

2-26-12  
Date

DAVID D. NOLTE  
*DAVID D. NOLTE*

County of Tippecanoe  
State of Indiana }

SS:

On this 26<sup>th</sup> day of February 2012 before me a Notary Public in and for the County and State aforesaid, personally appeared DAVID D. NOLTE, to me known and known to me to be the person of that name, who signed and sealed the foregoing instrument, and acknowledged the same to be of *his/her* free act and deed.

Jennifer J. Martin  
Notary Public  
My commission Expires 2/15/2017

(SEAL)



12/8/2011  
Date

John J. Turek  
JOHN J. TUREK

County of Tipton )  
State of Indiana )

ss:

On this 8th day of December, 2011, before me a Notary Public in and for the County and State aforesaid, personally appeared JOHN J. TUREK, to me known and known to me to be the person of that name, who signed and sealed the foregoing instrument, and acknowledged the same to be of *his/her* free act and deed.

Carlene R. Linn  
Carlene R. Linn  
Notary Public

(SEAL)

My commission Expires 2/14/2016

ASSIGNOR OUTSIDE THE UNITED STATES (USA):

I am outside the United States of America (USA) and do not have access to a Notary Public.

I am signing this document in Seoul, South Korea,  
(City, Country)

07/24/2012

Date



KWAN JEONG

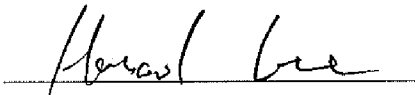
My signature has been witnessed by:



Witness

WONTAEK LIM

Printed Name



Witness

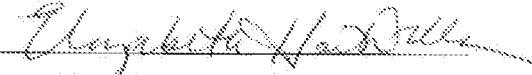
HANSOL LEE

Printed Name



ACCEPTED BY ASSIGNEE:

29 February 2012  
Date

By:   
Printed: Elizabeth A. Hart-Wells  
Title: Assistant Vice-President and Director  
Office of Technology Commercialization  
Purdue Research Foundation