

PATENT ASSIGNMENT

Electronic Version v1.1

Stylesheet Version v1.1

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>Ramakrishna Mukkamala</td> <td>03/22/2013</td> </tr> <tr> <td>Da Xu</td> <td>02/01/2013</td> </tr> <tr> <td>Guanqun Zhang</td> <td>03/22/2013</td> </tr> <tr> <td>Mingwu Gao</td> <td>03/22/2013</td> </tr> <tr> <td>Mohsen Moslehpour</td> <td>03/22/2013</td> </tr> </tbody> </table>		Name	Execution Date	Ramakrishna Mukkamala	03/22/2013	Da Xu	02/01/2013	Guanqun Zhang	03/22/2013	Mingwu Gao	03/22/2013	Mohsen Moslehpour	03/22/2013
Name	Execution Date												
Ramakrishna Mukkamala	03/22/2013												
Da Xu	02/01/2013												
Guanqun Zhang	03/22/2013												
Mingwu Gao	03/22/2013												
Mohsen Moslehpour	03/22/2013												
RECEIVING PARTY DATA													
<table border="1"> <tr> <td>Name:</td> <td>Board of Trustees of Michigan State University</td> </tr> <tr> <td>Street Address:</td> <td>246 Administration Building</td> </tr> <tr> <td>City:</td> <td>East Lansing</td> </tr> <tr> <td>State/Country:</td> <td>MICHIGAN</td> </tr> <tr> <td>Postal Code:</td> <td>48824</td> </tr> </table>		Name:	Board of Trustees of Michigan State University	Street Address:	246 Administration Building	City:	East Lansing	State/Country:	MICHIGAN	Postal Code:	48824		
Name:	Board of Trustees of Michigan State University												
Street Address:	246 Administration Building												
City:	East Lansing												
State/Country:	MICHIGAN												
Postal Code:	48824												
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>13816427</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13816427								
Property Type	Number												
Application Number:	13816427												
CORRESPONDENCE DATA													
<p>Fax Number: 2486410270</p> <p><i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Phone: 248-641-1600</p> <p>Email: kvigne@hdp.com</p> <p>Correspondent Name: HARNESS, DICKEY & PIERCE, P.L.C.</p> <p>Address Line 1: P.O. BOX 828</p> <p>Address Line 4: Bloomfield Hills, MICHIGAN 48303</p>													
ATTORNEY DOCKET NUMBER:	6550-000200/US/NPB												
NAME OF SUBMITTER:	Timothy D. MacIntyre												
<p>Total Attachments: 3</p> <p>source=ASSIGNMENT_EXECUTED#page1.tif</p> <p>source=ASSIGNMENT_EXECUTED#page2.tif</p> <p>source=ASSIGNMENT_EXECUTED#page3.tif</p>													

CH \$40.00 13816427

ASSIGNMENT

WHEREAS, the undersigned, hereinafter referred to collectively as Assignor, has invented:

METHODS AND APPARATUS FOR DETERMINING ARTERIAL PULSE WAVE VELOCITY

for which Assignor is about to make or has made United States or International application for patent

- (a) ☐ executed on even date preparatory to filing (each inventor should sign this Assignment on the same day as he/she signs the Declaration);
- (b) ☐ executed on _____, _____, _____; or
- (c) ☒ filed on **August 12, 2011**, and assigned Serial No. _____ or PCT International Application No. **PCT/US2011/047516**; and

WHEREAS, **BOARD OF TRUSTEES OF MICHIGAN STATE UNIVERSITY, 246 Administration Building, East Lansing, Michigan 48824**, hereinafter referred to as Assignee, is desirous of acquiring all right, title, and interest therein:

NOW, THEREFORE, for good and valuable consideration, the receipt and adequacy whereof is hereby acknowledged, Assignor hereby confirms any prior assignment to Assignee, and to the extent that Assignor has not already done so, agrees to assign, and hereby does, sell, assign and transfer unto Assignee and its successors in interest, the full and exclusive right, title and interest in the United States of America and throughout the world, including the right to claim priority under the laws of the United States, the Paris Convention, and any foreign countries, to the inventions as described in the aforesaid application, to the aforesaid application itself, and all divisions, continuations, continuations-in-part, or other applications claiming priority directly or indirectly from the aforesaid application, and any United States or foreign Letters Patent, utility model, or other similar rights which may be granted thereon, including reissues, reexaminations and extensions thereof, and all copyright rights throughout the world in the aforesaid application and the subject matter disclosed therein, these rights, title and interest to be held and enjoyed by Assignee to the full end of the term for which the Letters Patent, utility model, or other similar rights, are granted and any extensions thereof as fully and entirely as the same would have been held by Assignor had this assignment and sale not been made, and the right to sue for, and recover for past infringements of, or liabilities for, any of the rights relating to any of the applications, patents, utility models, or other similar rights, resulting therefrom, and the copyright rights;

Assignor hereby covenants and agrees to execute all instruments or documents required or requested for the making and prosecution of any applications of any type for patent, utility model, or other similar rights, and for copyright, in the United States and in all foreign countries including, but not limited to, any provisional, continuation, continuation-in-part, divisional, renewal or substitute thereof, and as to letters patent any reissue, re-examination, or extension thereof, and for litigation regarding, or for the purpose of protecting title and to the said invention, the United States application for patent, or Letters Patent therefor, and to testify in support thereof, for the benefit of Assignee without further or other compensation than that above set forth;

Assignor hereby covenants that no assignment, sale, license, agreement or encumbrance has been or will be entered into which would conflict with this Assignment; and

Assignor hereby requests the United States Patent and Trademark Office to issue the Letters Patent of the United States of America to Assignee, and requests that any official of any country or countries foreign to the United States, whose duty it is to issue or grant patents and applications as aforesaid, to issue the Letters Patent, Utility Model Registration or other similar right to Assignee.

ASSIGNMENT

Assignor hereby acknowledges his/her assignment obligations pursuant to MSU Patent Policy as set forth in the MSU Faculty Handbook, and acknowledges and agrees that the subject matter of this application constitutes a University Invention, as that term is defined in the MSU Faculty Handbook.

The undersigned hereby grant(s) the law firm of Harness, Dickey & Pierce, P.L.C. the power to insert on this Assignment any further identification which may be necessary or desirable in order to comply with the rules of the U.S. Patent and Trademark Office for recordation of this document.



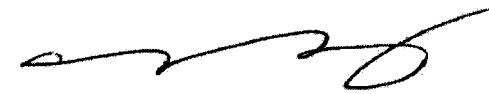
Ramakrishna MUKKAMALA

3/22/13

Dated

Da XU

Dated



Guanqun ZHANG

03/22/13

Dated



Mingwu GAO

3/22/13


Dated



Mohsen MOSLEHPOUR

3/22/13

Dated



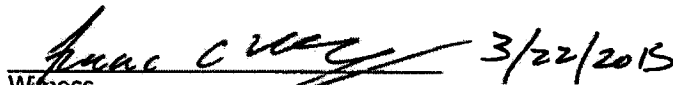
Witness



Witness

Witness


Witness




Witness




Witness



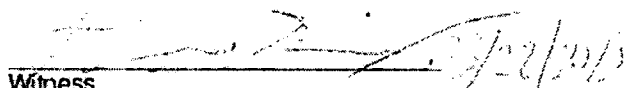
Witness



Witness



Witness



Witness

ASSIGNMENT

Assignor hereby acknowledges his/her assignment obligations pursuant to MSU Patent Policy as set forth in the MSU Faculty Handbook, and acknowledges and agrees that the subject matter of this application constitutes a University Invention, as that term is defined in the MSU Faculty Handbook.

The undersigned hereby grant(s) the law firm of Harness, Dickey & Pierce, P.L.C. the power to insert on this Assignment any further identification which may be necessary or desirable in order to comply with the rules of the U.S. Patent and Trademark Office for recordation of this document.

Ramakrishna MUKKAMALA

 Witness

 Dated

 Witness

Da XU

 Witness

 Dated

 Witness

Guanqun ZHANG

 Witness

 Dated

 Witness

Mingwu GAO

 Witness

 Dated

 Witness

Mohsen MOSLEHPOUR

 Witness

 Dated

 Witness