

## PATENT ASSIGNMENT

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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>Mark D. Pagel</td> <td>02/12/2013</td> </tr> <tr> <td>Julio Cardenas-Rodriguez</td> <td>02/15/2013</td> </tr> </tbody> </table>		Name	Execution Date	Mark D. Pagel	02/12/2013	Julio Cardenas-Rodriguez	02/15/2013						
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RECEIVING PARTY DATA													
<table border="1"> <tr> <td>Name:</td> <td>Arizona Board of Regents on behalf of the University of Arizona</td> </tr> <tr> <td>Street Address:</td> <td>888 N. Euclid Avenue</td> </tr> <tr> <td>Internal Address:</td> <td>204</td> </tr> <tr> <td>City:</td> <td>Tucson</td> </tr> <tr> <td>State/Country:</td> <td>ARIZONA</td> </tr> <tr> <td>Postal Code:</td> <td>85721-0158</td> </tr> </table>		Name:	Arizona Board of Regents on behalf of the University of Arizona	Street Address:	888 N. Euclid Avenue	Internal Address:	204	City:	Tucson	State/Country:	ARIZONA	Postal Code:	85721-0158
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PROPERTY NUMBERS Total: 1													
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>PCT Number:</td> <td>US2013021583</td> </tr> </tbody> </table>		Property Type	Number	PCT Number:	US2013021583								
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CORRESPONDENCE DATA													
<p>Fax Number: 3129130002  <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Phone: 312-913-0001        Email: harper@mbhb.com        Correspondent Name: McDonnell Boehnen Hulbert &amp; Berghoff LLP        Address Line 1: 300 South Wacker Drive        Address Line 2: Suite #3100        Address Line 4: Chicago, ILLINOIS 60606</p>													
ATTORNEY DOCKET NUMBER:	12-1443-PCT												
NAME OF SUBMITTER:	David Harper												
<p>Total Attachments: 3        source=12-1443-PCT Assignment (Executed)#page1.tif        source=12-1443-PCT Assignment (Executed)#page2.tif        source=12-1443-PCT Assignment (Executed)#page3.tif</p>													

CH \$40.00 US2013021583

## ASSIGNMENT

Case No.: 12-1443-PCT  
Inventors: Mark D. Pagel and Julio Cardenas-Rodriguez

Serial No.: PCT/US13/21583

Date of Execution  
of Application:

Filing Date: January 16, 2013

In consideration of good and valuable consideration provided to assignor, the receipt and sufficiency whereof are hereby acknowledged, the undersigned hereby assign to:

**Arizona Board of Regents on behalf of the University of Arizona**

its successors and assigns, the entire right, title and interest in the invention or improvements of the undersigned disclosed in an application for Letters Patent of the United States, entitled:

**"Improved Assessments of Vascular Permeability for Biomedical Imaging Studies"**

and identified as:

**Case No. 12-1443-PCT**

In the offices of McDONNELL BOEHNNEN HULBERT & BERGHOFF LLP and in said application and any and all other applications, both United States and foreign (including but not limited to all countries on the list below\*), which the undersigned may file, either solely or jointly with others, on said invention or improvements, and in any and all Letters Patent of the United States and foreign countries (including but not limited to all countries on the list below\*), which may be obtained on any of said applications, and in any reissue or extension of such patents, and further assigns to said assignee the priority right provided by the International Convention.

The undersigned hereby authorize and request the United States Commissioner of Patents and Trademarks to issue said Letters Patent to said assignee.

The undersigned hereby authorize and request the attorneys of record in said application to insert in this assignment the filing date and serial number of said application when officially known, and the date of execution of the application.

The undersigned warrant themselves to be the owners of the entire right, title and interest in said invention or improvements and to have the right to make this assignment, and further warrant that there are no outstanding prior assignments, licenses, or other encumbrances on the interest herein assigned.

For said considerations the undersigned hereby agree, upon the request and at the expense of said assignee, its successors and assigns, to execute any and all divisional, continuation and substitute applications for said invention or improvements, and any necessary oath, affidavit or declaration relating thereto, and any application for the reissue or extension of any Letters Patent that may be granted upon said application and any and all applications and other documents for Letters Patent in foreign countries (including but not limited to all countries on the list below\*) on said invention or improvements, that said assignee, its successors or assigns may deem necessary or expedient, and for the said considerations the undersigned authorize said assignee to apply for patents for said invention or improvements in its own name in such countries where such procedure

is proper and further agree, upon the request of said assignee, its successors and assigns, to cooperate to the best of the ability of the undersigned with said assignee, its successors and assigns, in any proceedings or transactions involving such applications or patents, including the preparation and execution of preliminary statements, giving and producing evidence, and performing any and all other acts necessary to obtain, maintain and enforce said Letters Patent, both United States and foreign, and vest all rights therein hereby conveyed in the assignee, its successors and assigns, whereby said Letters Patent will be held and enjoyed by the said assignee, its successors and assigns, to the full end of the term for which said Letters Patent will be granted, as fully and entirely as the same would have been held and enjoyed by the undersigned if this assignment had not been made.

\*Countries include, but are not limited to: all member countries of the Patent Cooperation Treaty (PCT). including Albania, Algeria, Antigua and Barbuda, Armenia, Australia, Austria, Azerbaijan, Barbados, Belarus, Belgium, Belize, Benin, Bosnia and Herzegovina, Brazil, Bulgaria, Burkina Faso, Cameroon, Canada, Central African Republic, Chad, China, Colombia, Congo, Costa Rica, Cote d'Ivoire, Croatia, Cuba, Cyprus, Czech Republic, Democratic People's Republic of Korea, Denmark, Dominica, Ecuador, Estonia, Finland, France, Gabon, Gambia, Georgia, Germany, Ghana, Greece, Grenada, Guinea, Guinea-Bissau, Hungary, Iceland, India, Indonesia, Ireland, Israel, Italy, Japan, Kazakhstan, Kenya, Kyrgyzstan, Latvia, Lesotho, Liberia, Liechtenstein, Lithuania, Luxembourg, Madagascar, Malawi, Mali, Mauritania, Mexico, Monaco, Mongolia, Monaco, Mongolia, Morocco, Netherlands, New Zealand, Niger, Norway, Poland, Portugal, Republic of Korea, Republic of Moldova, Romania, Russian Federation, Saint Lucia, Senegal, Sierra Leone, Singapore, Slovakia, Slovenia, South Africa, Spain, Sri Lanka, Sudan, Swaziland, Sweden, Switzerland, Tajikistan, The former Yugoslav Republic of Macedonia, Togo, Trinidad and Tobago, Tunisia, Turkey, Turkmenistan, Uganda, Ukraine, United Arab Emirates, United Kingdom, United Republic of Tanzania, United States of America, Uzbekistan, Vietnam, Yugoslavia, Zambia, Zimbabwe.

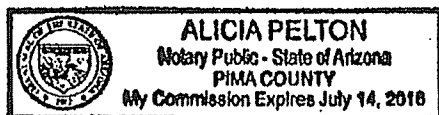
WITNESS my hand and seal this 12<sup>th</sup> day of February, 2013.

Mark D. Pagel  
Mark D. Pagel

State of Arizona

County of Pima

The foregoing instrument was acknowledged before me this 12<sup>th</sup> day of February, 2013, by Alicia Pelton



Alicia Pelton  
NOTARY PUBLIC

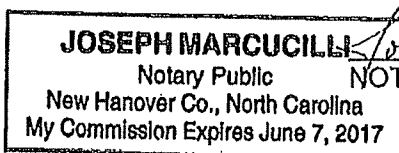
WITNESS my hand and seal this 15<sup>th</sup> day of February, 2013.

  
\_\_\_\_\_  
Julio Cardenas-Rodriguez

State of North Carolina

County of New Hanover

The foregoing instrument was acknowledged before me this 15 day of  
Feb, 2013 by Joseph Marcucilli



  
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