

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>Jeffrey Sakamoto</td> <td>04/16/2013</td> </tr> <tr> <td>Ryan Patrick Maloney</td> <td>04/17/2013</td> </tr> <tr> <td>Travis Thompson</td> <td>04/16/2013</td> </tr> </tbody> </table>		Name	Execution Date	Jeffrey Sakamoto	04/16/2013	Ryan Patrick Maloney	04/17/2013	Travis Thompson	04/16/2013		
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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>450 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>48824-1046</td> </tr> </table>		Name:	Board of Trustees of Michigan State University	Street Address:	450 Administration Building	City:	East Lansing	State/Country:	MICHIGAN	Postal Code:	48824-1046
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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>US2012046469</td> </tr> </tbody> </table>		Property Type	Number	PCT Number:	US2012046469						
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PCT Number:	US2012046469										
CORRESPONDENCE DATA											
<p>Fax Number: <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Phone: 515-233-3865 Email: clark_docketing@cardinal-ip.com Correspondent Name: Barbara J. Clark Address Line 1: 1631 Crestwood Circle Address Line 4: Ames, IOWA 50010</p>											
ATTORNEY DOCKET NUMBER:	3000.046WO1										
NAME OF SUBMITTER:	Jeanne Burdette										
Signature:	/Jeanne Burdette/										
Date:	04/25/2013										

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Total Attachments: 4

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ASSIGNMENT

WHEREAS, We, Jeffrey Sakamoto, residing at 1505 Stonegate Lane, East Lansing, MI 48823; Ryan Patrick Maloney, residing at 6169 San Bruno Court, Rohnert Park, CA 94928; and Travis Thompson, residing at 14790 Mandan Road, Apple Valley, CA 92307, made certain new and useful inventions and improvements which are described in an application for Patent Cooperation Treaty Application filed on July 12, 2012, which application was assigned PCT patent application serial number PCT/US2012/046469, and is entitled POROUS SOL GELS AND METHODS AND STRUCTURES RELATED THERETO.

WHEREAS, we are governed by Michigan State University (hereinafter "MSU") Patent Policy (www.hr.msu.edu/documents/facacadhandbooks/facultyhandbook/patents.htm), and therefore understand that, in exchange for GOOD AND VALUABLE CONSIDERATION provided by MSU, the receipt, sufficiency and adequacy of which are hereby acknowledged, the aforementioned new and useful inventions and improvements are considered "University Inventions." As such, the undersigned does hereby:

SELL, ASSIGN AND TRANSFER to Board of Trustees of Michigan State University (the "Assignee"), a corporation of the State of Michigan, having a place of business at 450 Administration Building, East Lansing, MI 48824-1046, the entire right, title and interest for the United States and all foreign countries in and to: any and all inventions and improvements which are disclosed in the identified application for U.S. Letters Patent, and which may be further identified below; such application and all divisional, continuing, substitute, renewal, reissue and all other applications for patent which have been or shall be filed in the United States (including all provisional and non-provisional applications), and in all foreign countries on any of such inventions and/or improvements (including any applications for utility models); all original and reissued patents which have been or shall be issued in the United States and all foreign countries on such inventions and/or improvements; and specifically including the right to file foreign applications under the provisions of any convention or treaty and to claim priority based on the identified application;

AUTHORIZE AND REQUEST that any attorney associated with U.S. PTO Customer No. 102038 may (directly or through his/her designee) delete, insert, or alter any information identifying this application, or any related application, below, after execution of this Assignment;

AUTHORIZE AND REQUEST the issuing authority to issue any and all United States and foreign patents granted on such improvements to the Assignee;

WARRANT AND COVENANT that no assignment, grant, mortgage, license or other agreement affecting the rights and/or property herein conveyed has been or will be made to others by the undersigned, and that the full right to convey the same as herein expressed is possessed by the undersigned;

COVENANT, that when requested and without compensation, but at the expense of the Assignee, in order to carry out in good faith the intent and purpose of this Assignment, the undersigned will (1) execute all provisional, non-provisional, divisional, continuing, substitute, renewal, reissue, and all other patent applications on any and all such improvements; (2) execute all

ASSIGNMENT

Client Ref. No. C00000046.WOU2

Assignor: Sakamoto et al.

Title: Porous Sol Gels and Methods and Structures Related Thereto

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Docket No: 3000.046WO1

Serial Number: PCT/US2012/046469

IN TESTIMONY WHEREOF, I have hereunto set my hand this 16 day of
April, 2013.



Jeffrey Sakamoto

ASSIGNMENT

Client Ref. No. C00000046.WOU2

Assignor: Sakamoto et al.

Title: Porous Sol Gels and Methods and Structures Related Thereto


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Docket No: 3000.046W01

Serial Number: PCT/US2012/046469

IN TESTIMONY WHEREOF, I have hereunto set my hand this 17 day of

APRIL, 2013.



Ryan Patrick Maloney

ASSIGNMENT

Client Ref. No. C00000046.WOU2

Assignor: Sakamoto et al.


Title: Porous Sol Gels and Methods and Structures Related Thereto

Page 5 of 5

Docket No: 3000.046WO1

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Travis Thompson