

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>Andrew R. Barron</td> <td>02/18/2013</td> </tr> <tr> <td>Samuel J. Maguire-Boyle</td> <td>02/18/2013</td> </tr> <tr> <td>Alvin White Orbaek</td> <td>02/18/2013</td> </tr> </tbody> </table>		Name	Execution Date	Andrew R. Barron	02/18/2013	Samuel J. Maguire-Boyle	02/18/2013	Alvin White Orbaek	02/18/2013		
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RECEIVING PARTY DATA											
<table border="1"> <tr> <td>Name:</td> <td>William Marsh Rice University</td> </tr> <tr> <td>Street Address:</td> <td>6100 Main Street</td> </tr> <tr> <td>City:</td> <td>Houston</td> </tr> <tr> <td>State/Country:</td> <td>TEXAS</td> </tr> <tr> <td>Postal Code:</td> <td>77005</td> </tr> </table>		Name:	William Marsh Rice University	Street Address:	6100 Main Street	City:	Houston	State/Country:	TEXAS	Postal Code:	77005
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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>Application Number:</td> <td>13701769</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13701769						
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Application Number:	13701769										
CORRESPONDENCE DATA											
Fax Number:	7136502400										
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>											
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NAME OF SUBMITTER:	Farhang Amini, Ph.D.										
Total Attachments: 2 source=Assignment_signed#page1.tif source=Assignment_signed#page2.tif											

CH \$40.00 13701769

PATENT

ASSIGNMENT OF INVENTION

WHEREAS, I, **Andrew R. Barron**, 241 Asbury, Houston, TX 77007, United States of America; I, **Samuel J. Maguire-Boyle**, 19 Mount Sandford, Termonfeckin Rd, Drogheda, Ireland; and I, **Alvin White Orbaek**, 30 Carysfort Rd., Dalkey, Dublin, Ireland, have invented certain new and useful improvements in: **“ANALYZING THE TRANSPORT OF PLASMONIC PARTICLES THROUGH MINERAL FORMATIONS”** for which a U.S. national stage application was filed on December 3, 2012 under application number 13/701,769;

WHEREAS, the **WILLIAM MARSH RICE UNIVERSITY**, a university organized under the laws of Texas, having a principal office and place of business at 6100 Main Street, Houston, TX 77005 USA (hereinafter "ASSIGNEE") desires to acquire from Andrew R. Barron, Samuel J. Maguire-Boyle, and Alvin White Orbaek the entire right, title and interest each has in and to said invention and in and to any Letters Patent that may be granted thereof in the United States and its territorial possessions, and any and all countries foreign to the United States of America;

NOW, THEREFORE, for valuable consideration, the receipt whereof is hereby acknowledged, I, by these presents do sell, assign and transfer unto said ASSIGNEE, all of my rights to the said invention in the United States and its territorial possessions and all countries foreign to the United States of America, and my entire right, title and interest in and to any and all Letters Patent which may be granted therefor in the United States and its territorial possessions and in and to any and all divisions, reissues, continuations, substitutions and renewals thereof, and to any and all Letters Patent which may be granted therefor in all countries foreign to the United States.

I hereby authorize and request the Patent Office Officials in the United States and its territorial possessions and Patent Office Officials in all countries foreign to the United States to issue any and all of said Letters Patent, when granted, to said ASSIGNEE as the assignee of my entire right, title and interest in and to the same, for the use and behalf of said ASSIGNEE, its successors and assigns, to the full end of the term for which said Letters Patent may be granted, as fully and entirely as the same would have been held by me had this Assignment and sale not been made.

Further, I agree that I will communicate to said ASSIGNEE or its representatives any facts known to me respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuation, substitute, renewal and reissue applications, execute all necessary assignment papers to cause any and all of said Letters Patent to be issued to said ASSIGNEE, make all rightful oaths, and, generally do everything possible to aid said ASSIGNEE, its successors and assigns, to obtain and enforce proper protection for said invention in the United States and its territorial possessions, and in all countries foreign to the United States.

The undersigned hereby grants authorized representatives of the above identified ASSIGNEE 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 United States Patent and Trademark Office for recordation of this document.

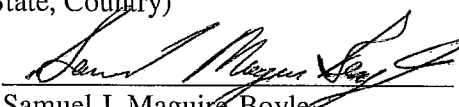
EXECUTED AT: houston TX USA
(City, State, Country)

Date: 2/18/13


Andrew R. Barron

EXECUTED AT: Houston, Tx, USA.
(City, State, Country)

Date: 2/18/13


Samuel J. Maguire-Boyle

EXECUTED AT: Houston, Tx, USA
(City, State, Country)

Date: 2/18/13


Alvin White Orbaek