

PATENT ASSIGNMENT

Electronic Version v1.1
 Stylesheet Version v1.1

| SUBMISSION TYPE: | NEW ASSIGNMENT | | | | | | | | | | |
|--|---------------------------------|---------------|----------------|---------------------|------------|--------------|------------|--------------------------|------------|---------------|------------|
| NATURE OF CONVEYANCE: | ASSIGNMENT | | | | | | | | | | |
| CONVEYING PARTY DATA | | | | | | | | | | | |
| <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:70%;">Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>CATHERINE J. MURPHY</td> <td>07/09/2007</td> </tr> <tr> <td>TAPAN K. SAU</td> <td>03/26/2007</td> </tr> <tr> <td>CHRISTOPHER J. ORENDORFF</td> <td>07/02/2008</td> </tr> <tr> <td>ANAND M. GOLE</td> <td>07/15/2008</td> </tr> </tbody> </table> | | Name | Execution Date | CATHERINE J. MURPHY | 07/09/2007 | TAPAN K. SAU | 03/26/2007 | CHRISTOPHER J. ORENDORFF | 07/02/2008 | ANAND M. GOLE | 07/15/2008 |
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| RECEIVING PARTY DATA | | | | | | | | | | | |
| Name: | UNIVERSITY OF SOUTH CAROLINA | | | | | | | | | | |
| Street Address: | OSBORNE ADMINISTRATION BUILDING | | | | | | | | | | |
| City: | COLUMBIA | | | | | | | | | | |
| State/Country: | SOUTH CAROLINA | | | | | | | | | | |
| Postal Code: | 29208 | | | | | | | | | | |
| PROPERTY NUMBERS Total: 1 | | | | | | | | | | | |
| <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:30%;">Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>11721554</td> </tr> </tbody> </table> | | Property Type | Number | Application Number: | 11721554 | | | | | | |
| Property Type | Number | | | | | | | | | | |
| Application Number: | 11721554 | | | | | | | | | | |
| CORRESPONDENCE DATA | | | | | | | | | | | |
| Fax Number: | (515)288-1338 | | | | | | | | | | |
| <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i> | | | | | | | | | | | |
| Phone: | 515-288-3667 | | | | | | | | | | |
| Email: | patatty@ipmvs.com | | | | | | | | | | |
| Correspondent Name: | McKee, Voorhees & Sease, PLC | | | | | | | | | | |
| Address Line 1: | 801 Grand Avenue | | | | | | | | | | |
| Address Line 2: | Suite 3200 | | | | | | | | | | |
| Address Line 4: | Des Moines, IOWA 50309-2721 | | | | | | | | | | |
| ATTORNEY DOCKET NUMBER: | P08006US01 - C114-4 | | | | | | | | | | |
| NAME OF SUBMITTER: | EDMUND J. SEASE | | | | | | | | | | |
| Total Attachments: 5 | | | | | | | | | | | |

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ASSIGNMENT

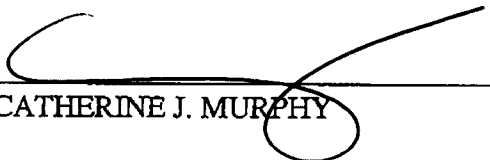
In consideration of One Dollar and other good and valuable considerations, the receipt and sufficiency whereof are hereby acknowledged, the undersigned hereby assign to **UNIVERSITY OF SOUTH CAROLINA**, having an address of Osborne Administration Building, Columbia, South Carolina 29208, its successors 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, Serial No. 11/721,554 filed in the United States Patent and Trademark Office on the 13th day of June, 2007, entitled **SURFACE ENHANCED RAMAN SPECTROSCOPY USING SHAPED GOLD NANOPARTICLES**, and in said application and any and all other applications for United States Letters Patent, which the undersigned may file, either solely or jointly with others, on said invention or improvements, and in any and all Letters Patent, applications, and in any reissue or extension thereof.

The undersigned hereby authorize and request the Commissioner of Patents to issue said Letters Patent to said University of South Carolina.

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 or affidavit relating thereto, and any application for the reissue or extension of any Letters Patent that may be granted upon said application, and for the said considerations the undersigned further agree upon the request of said assignee, its successors or assigns, in the event of any application or Letters Patent assigned herein becoming involved in interference, to cooperate to the best of the ability of the undersigned with said assignee, its successors or assigns in the matters of preparing and executing the preliminary statement and giving and producing evidence in support thereof, the undersigned hereby agreeing to perform, upon request, any and all affirmative acts to obtain said Letters Patent of the United States and vest all rights therein hereby conveying in the said 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 may be granted as fully and entirely as the same would have been held and enjoyed by the undersigned if this assignment and sale had not been made.

And for said considerations the undersigned hereby assign to said assignee, its successors and assigns, the entire right, title and interest in said invention or improvements for any and all foreign countries and agree upon the request of assignee, its successors and assigns to execute any and all documents that undersigned shall be requested to execute in connection with any and all applications for foreign Letters Patent therefor, including the prosecution thereof, and to execute any and all documents necessary to vest title in said foreign applications and patents in assignee.



 CATHERINE J. MURPHY

STATE OF SOUTH CAROLINE)
) ss.
 COUNTY OF Richland)

On this 9 day of July, 2007, before me, a Notary Public in and for the County and State aforesaid, appeared CATHERINE J. MURPHY to me personally known to be the person whose name is subscribed to the foregoing instrument, and acknowledged that she executed said instrument as her free and voluntary act for the uses and purposes therein expressed.

Witness my hand and seal the day and year last above given.

A. Mark Gordon

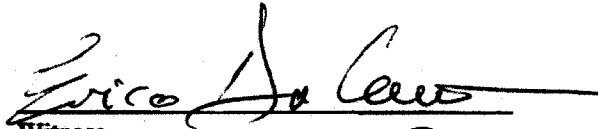
 Notary Public

Commission Expires 11/24/2012

Tapan Kumar Sau
TAPAN K. SAU

On this 26 day of MARCH, 2007, before me appeared TAPAN K. SAU, to me personally known to be the person whose name is subscribed to the foregoing instrument, and acknowledged that he executed said instrument as his free and voluntary act for the uses and purposes therein expressed.

Witness my hand.


Witness


Witness

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Christopher J. Orendorff
CHRISTOPHER J. ORENDORFF

STATE OF)
) ss.
COUNTY OF)

On this 2nd day of July, 2008, before me, a Notary Public in and for the County and State aforesaid, appeared CHRISTOPHER J. ORENDORFF, to me personally, known to be the person whose name is subscribed to the foregoing instrument, and acknowledged that he executed said instrument as his free and voluntary act for the uses and purposes therein expressed.

Witness my hand and seal the day and year last above given.

Nathaniel A. Armendariz

Notary Public
Commission Expires 9-19-2011



OFFICIAL SEAL
NATHANIEL A. ARMENDARIZ
NOTARY PUBLIC-STATE OF NEW MEXICO

My commission expires: 9-19-2011

Anand M. Gole

ANAND M. GOLE

On this 15 day of July, 2008, before me appeared ANAND M. GOLE, to me personally known to be the person whose name is subscribed to the foregoing instrument, and acknowledged that he executed said instrument as his free and voluntary act for the uses and purposes therein expressed.

Witness my hand.

Patrick Sisco [Patrick Sisco]

Witness

E Alauldin Alkiliang

Witness

E Alauldin Alkiliang