| | 01-26-2001 |
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| | Attorney Docket No. 1789-03501 |
| FORM PTO-1595 RECOF (Rev. 6-93) Patent and Trademark Office OMB No. 0651-0011 (exp. 4/94) PATENT | |
| To the Honorable Commissioner of Patents and Trademarks: Please reco | |
| 1. Name of conveying parties(ies): | 2. Name and address of receiving party(ies): |
| JENNIFER L. WEST NANCY J. HALAS STEVEN J. OLDENBURG RICHARD D. AVERITT Additional name(s) of conveying party(ies): | WM. MARSH RICE UNIVERSITY 6100 Main Street Houston, Texas 77005 |
| Attached? Yes No | Additional name(s) & address(es) |
| 3. Nature of conveyance: [2] Assignment [2] Merger [3] Security Agreement [4] Change of Name [5] Other | Attached? |
| Execution Date: December 22, 2000 | |
| 4. Application number(s) or patent number(s): 09/616,154 | |
| If this document is being filed together with a new application, the A. Patent Application No.(s). Additional numbers att | B. Patent No.(s). |
| 5. Name and address of party to whom correspondence concerning document should be mailed: | |
| Marcella D. Watkins Conley, Rose & Tayon, P.C. P. O. Box 3267 Houston, Texas 77253-3267 DO NOT L | 7. Total fee (37 CFR 3.41)\$40.00 ☐ Enclosed △ Authorized to be charged to deposit account 8. Deposit account number: 03-2769 (Attach duplicate copy of this page if paying by deposit account) JSE THIS SPACE |
| 2. (, , , , , , , , , , , , , , , , , , | |
| the original document | information is true and correct and any attached copy is a true copy o |
| Mail documents to be recorded w | rith required cover sheet information to: & Trademarks, Box Assignments |
| Commissioner of Fatency Commissioner of Fatency Washing FC:581 40.00 CH | ton, D. C. 20231 |
| 35936.01/1789.03501 | PATENT |

REEL: 011447 FRAME: 0673

ASSIGNMENT

WHEREAS, We, JENNIFER L. WEST, NANCY J. HALAS, STEVEN J. OLDENBURG and RICHARD D. AVERITT, are joint inventors of *Metal Nanoshells for Biosensing Applications;* which is the subject of United States Letters Patent Application Serial No. 09/616,154, filed July 14, 2000, Attorney File No. 1789-03501; and

WHEREAS, WM. MARSH RICE UNIVERSITY, a university doing business at 6100 Main Street, Houston, Texas 77005, is desirous of acquiring the entire right, title and interest in and to the aforesaid invention throughout the world, and all right, title and interest in, to and under any and all Letters Patent of the United States and all other countries throughout the world;

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, we hereby sell, assign, transfer and set over to WM. MARSH RICE UNIVERSITY, all right, title and interest in and to the said invention throughout the world, and said application for U.S. Letters Patent, and any and all divisions, continuations, and reissues thereof, and any and all Letters Patent of the United States and foreign countries which may be granted therefor, the same to be held and enjoyed by WM. MARSH RICE UNIVERSITY for its own use and benefit, and for the use and benefit of its successors, assigns, or other legal representatives, to the end of the term or terms for which said Letters Patent of the United States or foreign countries are or may be granted or reissued, as fully and entirely as the same would have been held and enjoyed by us if this assignment and sale had not been made.

And we hereby authorize and request the Commissioner of Patents and Trademarks to issue any and all Letters Patent of the United States on said invention or resulting from said application and from any and all divisions, continuations, and reissues thereof, to WM. MARSH RICE UNIVERSITY, as assignee of our entire interest, and hereby covenant that we have the full right to convey the entire interest herein assigned, and that we have not executed and will not execute any agreement in conflict herewith.

And we further hereby covenant and agree that we will, at any time, upon request, execute and deliver any and all papers that may be necessary or desirable to perfect the title of said invention and to such Letters Patent as may be granted therefor, to WM. MARSH RICE UNIVERSITY, its successors, assigns, or other legal representatives and that if WM. MARSH RICE UNIVERSITY, its successors, assigns or other legal representatives shall desire to file any divisional or continuation applications or to secure a reissue of such Letters Patent, or to file a disclaimer relating thereto, will upon request, sign all papers, make all rightful oaths and do all lawful acts requisite for the filing of such divisional or continuation, or such application for reissue and the procuring thereof, and for the filing of such disclaimer, without further compensation but at the expense of said assignee, its successors, or other legal representatives.

And we do further covenant and agree that we will, at any time upon request, communicate to WM. MARSH RICE UNIVERSITY, its successors, assigns or other legal representatives, such facts relating to said invention and Letters Patent or the file history thereof

as may be known to us, and testify as to the same in any interference or other litigation when requested so to do, without further compensation but at the expense of said assignee, its successors, or other legal representatives.

EXECUTED THIS 22 day of December, 2000.

2.W Jenniter L. West

STATE OF TEXAS § COUNTY OF HARRIS §

BEFORE ME, the undersigned authority, on this day personally appeared *Jennifer L*. *West*, known to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that he executed the same for the purposes and consideration therein expressed.

GIVEN UNDER MY HAND and seal of office this _____ day of _____, 2000.

Notary Public in and for the State of Texas

EXECUTED THIS <u>___</u>day of December, 2000.

1 Ale Nancy J. Halas

STATE OF TEXAS § COUNTY OF HARRIS §

BEFORE ME, the undersigned authority, on this day personally appeared Nancy J. Halas, known to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that he executed the same for the purposes and consideration therein expressed.

GIVEN UNDER MY HAND and seal of office this _____ day of _____, 2000.

EXECUTED THIS _____ day of December, 2000.

Signed on a Separate Sheet

Steven J. Oldenburg

STATE OF TEXAS § COUNTY OF HARRIS §

BEFORE ME, the undersigned authority, on this day personally appeared Steven J. Oldenburg, known to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that he executed the same for the purposes and consideration therein expressed.

GIVEN UNDER MY HAND and seal of office this _____ day of _____, 2000.

Notary Public in and for the State of Texas

EXECUTED THIS _____ day of December, 2000.

<u>Signed on a Separate Sheet</u> Richard D. Averitt

STATE OF TEXAS § COUNTY OF HARRIS §

BEFORE ME, the undersigned authority, on this day personally appeared **Richard D**. Averitt, known to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that he executed the same for the purposes and consideration therein expressed.

GIVEN UNDER MY HAND and seal of office this _____ day of _____, 2000.

ASSIGNMENT

WHEREAS, We, JENNIFER L. WEST, NANCY J. HALAS, STEVEN J. OLDENBURG and RICHARD D. AVERITT, are joint inventors of *Metal Nanoshells for Biosensing Applications;* which is the subject of United States Letters Patent Application Serial No. 09/616,154, filed July 14, 2000, Attorney File No. 1789-03501; and

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NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, we hereby sell, assign, transfer and set over to WM. MARSH RICE UNIVERSITY, all right, title and interest in and to the said invention throughout the world, and said application for U.S. Letters Patent, and any and all divisions, continuations, and reissues thereof, and any and all Letters Patent of the United States and foreign countries which may be granted therefor, the same to be held and enjoyed by WM. MARSH RICE UNIVERSITY for its own use and benefit, and for the use and benefit of its successors, assigns, or other legal representatives, to the end of the term or terms for which said Letters Patent of the United States or foreign countries are or may be granted or reissued, as fully and entirely as the same would have been held and enjoyed by us if this assignment and sale had not been made.

And we hereby authorize and request the Commissioner of Patents and Trademarks to issue any and all Letters Patent of the United States on said invention or resulting from said application and from any and all divisions, continuations, and reissues thereof, to WM. MARSH RICE UNIVERSITY, as assignee of our entire interest, and hereby covenant that we have the full right to convey the entire interest herein assigned, and that we have not executed and will not execute any agreement in conflict herewith.

And we further hereby covenant and agree that we will, at any time, upon request, execute and deliver any and all papers that may be necessary or desirable to perfect the title of said invention and to such Letters Patent as may be granted therefor, to WM. MARSH RICE UNIVERSITY, its successors, assigns, or other legal representatives and that if WM. MARSH RICE UNIVERSITY, its successors, assigns or other legal representatives shall desire to file any divisional or continuation applications or to secure a reissue of such Letters Patent, or to file a disclaimer relating thereto, will upon request, sign all papers, make all rightful oaths and do all lawful acts requisite for the filing of such divisional or continuation, or such application for reissue and the procuring thereof, and for the filing of such disclaimer, without further compensation but at the expense of said assignee, its successors, or other legal representatives.

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as may be known to us, and testify as to the same in any interference or other litigation when requested so to do, without further compensation but at the expense of said assignee, its successors, or other legal representatives.

EXECUTED THIS *^{*}* day of December, 2000.

<u>Signed on a Separate Sheet</u> Jennifer L. West

STATE OF TEXAS § COUNTY OF HARRIS §

BEFORE ME, the undersigned authority, on this day personally appeared *Jennifer L. West*, known to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that he executed the same for the purposes and consideration therein expressed.

GIVEN UNDER MY HAND and seal of office this _____ day of _____, 2000.

Notary Public in and for the State of Texas

EXECUTED THIS _____ day of December, 2000.

<u>Signed on a Separate Sheet</u> Nancy J. Halas

STATE OF TEXAS § COUNTY OF HARRIS §

BEFORE ME, the undersigned authority, on this day personally appeared Nancy J. Halas, known to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that he executed the same for the purposes and consideration therein expressed.

GIVEN UNDER MY HAND and seal of office this _____ day of _____, 2000.



BEFORE ME, the undersigned authority, on this day personally appeared Steven J. Oldenburg, known to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that he executed the same for the purposes and consideration therein expressed.

| GIVEN UNDER MY HA | AND and seal of office this day of DECENVER 2000. | |
|---|---|--|
| MICHELLE D. KLUSMAN Commission # 1257399 Notary Public California San Diego County My Comm. Expires Mar. 19, 2004 | Notary Public in and for the State of Texas (ALIFORNA | |
| EXECUTED THIS day of December, 2000. | | |
| Signed on a Separate Sheet | | |

Richard D. Averitt

STATE OF TEXAS § COUNTY OF HARRIS §

BEFORE ME, the undersigned authority, on this day personally appeared *Richard D. Averitt*, known to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that he executed the same for the purposes and consideration therein expressed.

GIVEN UNDER MY HAND and seal of office this _____ day of _____, 2000.

ASSIGNMENT

WHEREAS, We, JENNIFER L. WEST, NANCY J. HALAS, STEVEN J. OLDENBURG and RICHARD D. AVERITT, are joint inventors of *Metal Nanoshells for Biosensing Applications;* which is the subject of United States Letters Patent Application Serial No. 09/616,154, filed July 14, 2000, Attorney File No. 1789-03501; and

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NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, we hereby sell, assign, transfer and set over to WM. MARSH RICE UNIVERSITY, all right, title and interest in and to the said invention throughout the world, and said application for U.S. Letters Patent, and any and all divisions, continuations, and reissues thereof, and any and all Letters Patent of the United States and foreign countries which may be granted therefor, the same to be held and enjoyed by WM. MARSH RICE UNIVERSITY for its own use and benefit, and for the use and benefit of its successors, assigns, or other legal representatives, to the end of the term or terms for which said Letters Patent of the United States or foreign countries are or may be granted or reissued, as fully and entirely as the same would have been held and enjoyed by us if this assignment and sale had not been made.

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And we further hereby covenant and agree that we will, at any time, upon request, execute and deliver any and all papers that may be necessary or desirable to perfect the title of said invention and to such Letters Patent as may be granted therefor, to WM. MARSH RICE UNIVERSITY, its successors, assigns, or other legal representatives and that if WM. MARSH RICE UNIVERSITY, its successors, assigns or other legal representatives shall desire to file any divisional or continuation applications or to secure a reissue of such Letters Patent, or to file a disclaimer relating thereto, will upon request, sign all papers, make all rightful oaths and do all lawful acts requisite for the filing of such divisional or continuation, or such application for reissue and the procuring thereof, and for the filing of such disclaimer, without further compensation but at the expense of said assignee, its successors, or other legal representatives.

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as may be known to us, and testify as to the same in any interference or other litigation when requested so to do, without further compensation but at the expense of said assignee, its successors, or other legal representatives.

EXECUTED THIS __ day of December, 2000.

Signed on a Separate Sheet ______ Jennifer L. West

STATE OF TEXAS § COUNTY OF HARRIS §

BEFORE ME, the undersigned authority, on this day personally appeared *Jennifer L. West*, known to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that he executed the same for the purposes and consideration therein expressed.

GIVEN UNDER MY HAND and seal of office this _____ day of _____, 2000.

Notary Public in and for the State of Texas

EXECUTED THIS __ day of December, 2000.

<u>Signed on a Separate Sheet</u> Nancy J. Halas

STATE OF TEXAS § COUNTY OF HARRIS §

BEFORE ME, the undersigned authority, on this day personally appeared Nancy J. Halas, known to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that he executed the same for the purposes and consideration therein expressed.

GIVEN UNDER MY HAND and seal of office this _____ day of _____, 2000.

EXECUTED THIS __ day of December, 2000.

Signed on a Separate Sheet

Steven J. Oldenburg

STATE OF TEXAS § COUNTY OF HARRIS §

BEFORE ME, the undersigned authority, on this day personally appeared Steven J. Oldenburg, known to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that he executed the same for the purposes and consideration therein expressed.

GIVEN UNDER MY HAND and seal of office this _____ day of _____, 2000.

Notary Public in and for the State of Texas

EXECUTED THIS 22 day of December, 2000.

Richard D. Averitt

NEW MEYILO TEXAS § STATE OF TEXAS FHARRIS § COUNTY OF HARRIS

BEFORE ME, the undersigned authority, on this day personally appeared **Richard D**. Averitt, known to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that he executed the same for the purposes and consideration therein expressed.

GIVEN UNDER MY HAND and seal of office this 22 day of Notary Public in and for the State of Terror Wie WME + Zeo Wie WME + Zeo

RECORDED: 01/08/2001