PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

| SUBMISSION TYPE: | CORRECTIVE ASSIGNMENT |
|-----------------------|---|
| NATURE OF CONVEYANCE: | Corrective Assignment to correct the Assignment document previously recorded on Reel 027548 Frame 0792. Assignor(s) hereby confirms the Assignment. |

CONVEYING PARTY DATA

| Name | Execution Date |
|--------------------|----------------|
| Anthony L. ANDRADY | 12/21/2011 |
| David S. ENSOR | 12/08/2011 |
| Randall J. NEWSOME | 12/08/2011 |

RECEIVING PARTY DATA

| Name: | Research Triangle Institute |
|-----------------|-----------------------------|
| Street Address: | 3040 Cornwallis Road |
| City: | Research Triangle Park |
| State/Country: | NORTH CAROLINA |
| Postal Code: | 27709 |

PROPERTY NUMBERS Total: 1

| Property Type | Number |
|---------------------|----------|
| Application Number: | 13243400 |

CORRESPONDENCE DATA

Fax Number: (703)413-2220 Phone: (703) 413-3000 Email: hcho@oblon.com

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it

will be sent via US Mall.

Correspondent Name: Oblon, Spivak, et al. Address Line 1:

1940 Duke Street

Address Line 4: Alexandria, VIRGINIA 22314

| ATTORNEY DOCKET NUMBER: | 387187US20CONT |
|-------------------------|----------------|
| NAME OF SUBMITTER: | Hyun Cho |
| Signature: | /Hyun Cho/ |
| Date: | 02/06/2012 |

Total Attachments: 8

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RECEIPT INFORMATION

EPAS ID:

PAT1843230

Receipt Date:

02/06/2012

Fee Amount:

\$40

PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE: NEW ASSIGNMENT

NATURE OF CONVEYANCE: ASSIGNMENT

CONVEYING PARTY DATA

| Name | Execution Date |
|--------------------|----------------|
| Anthony L. Andrady | 12/21/2011 |
| David S. Ensor | 12/08/2011 |
| Randall J. Newsome | 12/08/2011 |

RECEIVING PARTY DATA

| Name: | Research Triangle Institute |
|-----------------|-----------------------------|
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| City: | Research Triangle Park |
| State/Country: | NORTH CAROLINA |
| Postal Code: | 27709 |

PROPERTY NUMBERS Total: 1

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| Application Number: | 13243400 |

CORRESPONDENCE DATA

Fax Number:

(703)413-2220

Phone:

(703) 413-3000

Email:

tmckissick@obion.com

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will be sent via US Mail.

Correspondent Name: Oblon, Spivak, et al.

Address Line 1:

1940 Duke Street

Address Line 4:

Alexandria, VIRGINIA 22314

ATTORNEY DOCKET NUMBER:

387187US

| NAME OF SUBMITT | ER: | Temika McKissick |
|--|-------------------------|--------------------|
| Signature: | | /Temika McKissick/ |
| Date: | | 01/18/2012 |
| Total Attachments: 6 source=387187USAssignment#page1.tif source=387187USAssignment#page2.tif source=387187USAssignment#page3.tif source=387187USAssignment#page4.tif source=387187USAssignment#page5.tif source=387187USAssignment#page6.tif | | |
| RECEIPT INFORMA | TION | |
| EPAS ID: Receipt Date: | PAT182200 01/18/2012 | |
| Fee Amount: | \$40 | |

387187US20CONT

Assignment of Application

| HSERT NAMES | WHEREAS, I (WE) Anthony L. ANDRADY of Apex, North Carolina; |
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| MP HELDS INCE DORSES OF HE INVENTORS: EERT YITLE OF VANITUM: EERT HAME ED ADDRESS OF MPARY OR REZA ASSIQUEE | David S. ENSOR of Chapel Hill, North Carolina; and |
| | Randall J. NEWSOME of Apex, North Carolina |
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| GERT TITLE OF VANIKA | have invented certain new and useful improvements in: <u>ELECTROSPINNING IN A CONTROLLED GASEOUS</u> <u>ENVIRONMENT</u> |
| | 40/040 400 |
| | (Application No. 13/243,400 , filed <u>September 23, 2011</u>), and |
| SERT HAME | WHERBAS, Research Triangle Institute |
| ed address of Marany or Texa assignee | (hereinafter referred to as "ASSIGNEE") having a place of business at: 3040 Cornwallis Road, Research Triangle Park, North Carolina 27709 is desirous of acquiring the entire right, title and interest in and to said invention and in and to any Letters Patent that may be granted therefore in the United States and its territorial possessions and in any and all foreign countries; |

NOW, THEREFORE, in consideration of the sum of FIVE DOLLARS (\$5.00), the receipt whereof is hereby acknowledged, and for other good and valuable consideration, I (WE), by these presents do sell, assign and transfer unto said ASSIGNEE, the full and exclusive right to the said invention in the United States and its territorial possessions and in all foreign countries (including the right to claim priority under the terms of the International Convention and other relevant International Treaties and Arrangements from the aforesaid application(s)) and the 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 any and all foreign countries and in and to any and all divisions, reissues, continuations, substitutions and renewals thereof.

I (WE) hereby authorize and request the Patent Office Officials in the United States and its territorial possessions and any and all foreign countries to issue any and all of said Letters Patent, when granted, to said ASSIGNEE as the assignee of my (our) entire right, title and interest in and to the same, for the sole use and behoof of said ASSIGNEE, its (his) 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 (us) had this Assignment and sale not been made.

07/09

Further, I (WE) agree that I (WE) will communicate to said ASSIGNEE or its (his) representatives any facts known to me (us) 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 Letter Patent to be issued to said ASSIGNEE, make all rightful oaths, and, generally do everything possible to aid said ASSIGNEE, its (his) successors and assigns, to obtain and enforce proper protection for said invention in the United States and its territorial possessions and in any and all foreign countries.

The undersigned hereby grant(s) the firm of Oblon, Spivak, McClelland, Maier & Neustadt, L.L.P. of 1940 Duke Street, Alexandria, Virginia 22314 the power to insert on this assignment any further identification, including the application number and filing date, 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.

| Date: 2/ Dec 201 | - Ont | |
|------------------|---|-----------------|
| | (Signature of Iguerator) Anthony L. ANDRADY | *************** |
| Date: | | |
| | (Signature of Inventor) David S. ENSOR | |
| Date; | | |
| | (Signature of Inventor) Randall J. NEWSOME | |

OBLON, SPIVAK, McCLELLAND, MAIER & NEUSTADT, L.L.P.
ATTORNEYS AT LAW
1940 DUKE STREET
ALEXANDRIA, VIRGINIA 22314

387187US20CONT

Assignment of Application

| INSERT NAMES | WHEREAS, I (WE) Anthony L. ANDRADY of Apex, North Carolina; | |
|---|---|---|
| ADDMESS OF | David S. ENSOR of Chapel Hill, North Carolina; and | |
| AND RELEASE | Randall J. NEWSOME of Apex, North Carolina | |
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| | , Tespec | tively |
| INSERT TITLE OF INVESTIGATION: | have invented certain new and useful improvements in: <u>ELECTROSPINNING IN A CONTROLLED GASEOUS ENVIRONMENT</u> | |
| | (Application No. 13/243,400 , filed September 23, 2011 |), and |
| MSERT NAME | WHEREAS, Research Triangle Institute | |
| OTHER VERGNEE COMMENT OF VIII VERGNEES ON | (hereinafter referred to as "ASSIGNEE") having a place of business at: 3040 Comwallis Road, Research Tr. Park, North Carolina 27709 is desirous of acquiring the entire right, title and interest in and to said invention and to any Letters Patent that may be granted therefore in the United States and its territorial possessions and if and all foreign countries: | _ 4 * |

NOW, THEREFORE, in consideration of the sum of FIVE DOLLARS (\$5.00), the receipt whereof is hereby acknowledged, and for other good and valuable consideration, I (WE), by these presents do sell, assign and transfer unto said ASSIGNEE, the full and exclusive right to the said invention in the United States and its territorial possessions and in all foreign countries (including the right to claim priority under the terms of the International Convention and other relevant International Treaties and Arrangements from the aforesaid application(s)) and the 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 any and all foreign countries and in and to any and all divisions, reissues, continuations, substitutions and renewals thereof.

I (WE) hereby authorize and request the Patent Office Officials in the United States and its territorial possessions and any and all foreign countries to issue any and all of said Letters Patent, when granted, to said ASSIGNEE as the assignee of my (our) entire right, title and interest in and to the same, for the sole use and behoof of said ASSIGNEE, its (his) 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 (us) had this Assignment and sale not been made.

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The undersigned hereby grant(s) the firm of Obion, Spivak, McClelland, Maler & Neustade, L.L.P. of \$940 Duke Street, Alexandria, Virginia 22314 the power to insert on this assignment any further identification, including the application number and filing date, 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.

| Date: | | (Signature of Environme) | A strain a AAPPER & MALE | |
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| Daiç: | December 3, 7011 | (Seginture of Inventor) | Anthony L. ANDRADY Substituting Street Control of the Control of | |
| Date: | 4-4 | 7777 | | |
| | | (Signature of Intermes) | Randali J. NEWSOME | |

OBLON, SPIVAK, McCLELLAND, MAIER & NEUSTADT, L.L.P.
ATTORNEYS AT LAW
1940 DUKE STREET
ALEXANDRIA, VIRGINIA 22314

07/09

387187US20CONT

Assignment of Application

| INSIDET NAMES | WHEREAS, I (WE) Anthony L. ANDRADY of Apex, North Carolina; | |
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| AND RELIGIMENT ADDRESS OF THE DIVENTORS: | David S. ENSOR of Chapel Hill, North Carolina; and | , |
| | Randall J. NEWSOME of Apex, North Carolina | 1- |
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| INVERTINAC | have invented certain new and useful improvements in: <u>ELECTROSPINNING IN A CONTROLLED</u> ENVIRONMENT | GASEOUS |
| | (Application No. 13/243,400 , filed September 23, 2011 |), and |
| MISSERT HARCE | WHEREAS, Research Triangle Institute | |
| MISTERT HARGE AND ADDRESS OF COMPANY OR CITIZER ASSIGNMEN | (hereinafter referred to as "ASSIGNEE") having a place of business at: 3040 Cornwallis Road. Repark. North Carolina 27709 is desirous of acquiring the entire right, title and interest in and to said and to any Letters Patent that may be granted therefore in the United States and its territorial possessed all therefore countries. | |

and all foreign countries;

NOW, THEREFORE, in consideration of the sum of FIVE DOLLARS (\$5.00), the receipt whereof is hereby acknowledged, and for other good and valuable consideration, I (WE), by these presents do sell, assign and transfer unto said ASSIGNEE, the full and exclusive right to the said invention in the United States and its territorial possessions and in all foreign countries (including the right to claim priority under the terms of the International Convention and other relevant International Treaties and Arrangements from the aforesaid application(s)) and the 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 any and all foreign countries and in and to any and all divisions, reissues, continuations, substitutions and renewals thereof.

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The undersigned hereby grant(s) the firm of Oblon, Spivak, McClelland, Maier & Neumadt, 1, 1, 2, P. of 1940 Duke Street, Alexandria, Virginia 22314 the power to intert on this assignment any further identification, including the application number and filling date, which may be necessary or desirable in order to comply with the rules of the United States Patent and Tyademark Office for recordation of this document.

Date:

(Signature of laventer) Anthony L. ANDRADY

Date:

Date: 12-8-2911

Signature of laventer) David S. ENSOR

Signature of laventer) David S. ENSOR

OBLON, SPIVAK, McCLELLAND, MAIER & NEUSTADT, L.L.P.
ATTORNEYS AT LAW
1940 DUKE STREET
ALEXANDRIA, VIRGINIA 22314

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Page I of 2

Assignment of Application

| NEERT NAMES | WHISKEAS, I (WE) Anenony L. ANDRADY of Apex, North Carolins; | |
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| ngertnangs And Residence Address of The Inventors | David S. ENSOR of Chapai Hill, North Carolina; and | |
| | Randall J. NEWSOME of Apex, North Carolina | Whenever |
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| SERT NAME SU ADDRINES OF | WHEREAS, Research Triangle Institute | |
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(hereinafter referred to as "ASSIGNEE") having a place of business at: 3040 Comwallis Road. Research Triangle Park. North Carolina 27709 is desirous of acquiring the entire right, title and interest in and to said invention and in and to any Letters Patent that may be granted therefore in the United States and its territorial possessions and in any and all foreign countries;

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07/09

FEB. 10. 2012 3:22PM OBLON SPIVAK NO. 295 P. 1

Page 2 of 2

Further, I (WE) agree that I (WE) will communicate to said ASSIGNEE or its (his) representatives any facts known to me (us) 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 Letter Patent to be issued to said ASSIGNEE, make all rightful oaths, and, generally do everything possible to aid said ASSIGNEE, its (his) successors and assigns, to obtain and enforce proper protection for said invention in the United States and its territorial possessions and in any and all foreign countries.

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111

| Date: | 21 Dec 2011 | | . Al | - Aut - | |
|-------|-------------|--|-------------------------|--------------------|--|
| | | | (Signature of Iguentor) | Anthony L. ANDRADY | |
| Date: | | | | | |
| | , , | | (Signature of Inventor) | David S. ENSOR | |
| Date: | | | | | |
| | | The state of the s | (Signature of Inventor) | Randail J. NEWSOME | |

OBLON, SPIVAK, McCLELLAND, MAIER & NEUSTADT, L.L.P.
ATTORNEYS AT LAW
1940 DUKE STREET
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387187US20CONT

Assignment of Application

| 'names Gidence | WHEREAS, I (WE) Anthony L. ANDRADY of Apex, North Carolina; | |
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| SS OF VENTORS | David S. ENSOR of Chapel Hill, North Carolina; and | |
| | Randail J. NEWSOME of Apex, North Carolina | · Continue |
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| | (Application No. 12/243,400 , filed September 23, 2011 |), and |
| | WHEREAS, Research Triangle Institute | |
| s of I Nee | (hereinafter referred to as "ASSIGNEE") having a place of business at: 3040 Cornwall | lis Road, Research Triangle |

Park, North Carolina 27709 is desirous of acquiring the entire right, title and interest in and to said invention and in and to any Letters Patent that may be granted therefore in the United States and its territorial possessions and in any and all foreign countries;

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Fage 2 of 2

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| Date: | Analysis from the second secon | |
|-------|--|--|
| Date: | December 8, 2011 | (Signature of Invested) Anthony L. ANDRADY Signature of Invested) Daylof S. ENSOR |
| Date: | | (Signamo sfinamer) Rendell I. NEWSOME |

OBLON, SPIVAK, McCLEILAND, MAIER & NEUSTADT, L.L.P.
ATTORNEYS AT LAW
1940 DUME STREET
ALEXANDRIA, VIRGINIA 22314

07/09

387187US20CONT

Assignment of Application

| DERT NAMES | WHEREAS, 1 (WE) Anthony L. ANDRADY of Apex, North Carolina; |
|--|---|
| AND RESIDENCE ADDRESS OF THE INVENTORS: | David S. ENSOR of Chapel Hill, North Carolina; and |
| Mar 101 a mais a molecul | Randall J. NEWSOME of Apex, North Carolina |
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| KSERT TITLE OF SVERTICES | have invented certain new and useful improvements in: <u>ELECTROSPINNING IN A CONTROLLED GASEOUS</u> <u>ENVIRONMENT</u> |
| | (Application No. 12/243,400 , filed September 23, 2011), and |
| SICRT NAME | WHEREAS, Research Triangle Institute |
| ISSET NAME NO AUDRESS OF ORIGINAL OR THUR ASSIGNEE | (hereinafter referred to as "ASSIGNEE") having a place of business at: 3040 Cornwallis Road, Research Triangle |

(hereinafter referred to as "ASSIGNEE") having a place of business at: 3040 Cornwallis Road, Research Triangle Park, North Carolina 27709 is desirous of acquiring the entire right, title and interest in and to said invention and in and to any Letters Patent that may be granted therefore in the United States and its territorial possessions and in any and all foreign countries;

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The sindersigned bereby grants) the firm of Colon, Spirek, MuChelland, Maier & Newstadt, L.L.P. of 1946 Duke Street, Alexandria, Virginia 22714 the power to insert on this assignment any further identification, including the application member and filing state, which may be necessary or desirable in order to comply with the rules of the United States Patent and Indemnik Office for reportation of this document.

| Date | | | | |
|-------|-----------|--|---------------------|--|
| | | (Signature of investor) | Anthony L. ANDRADY | |
| Date: | | Marie Company Control of the Control | | |
| + | | (Segmina of invaries) | Cavid S. ENSOR | |
| Date: | 12-8-2011 | Charles of Investor | I Newson | |
| | | Markumer at Number of 5 | Standall & MEWSENAR | |

oblon, spivak, mcClelland, majer & neustadt, l.l.p. Attorneys at law 1940 duke street Alexandria, virginia 22314

07/09

PATENT REEL: 027697 FRAME: 0777

RECORDED: 02/06/2012