| Form:PTO-1595 (Rev. 06704) | Us DEPARTMENT OF COMMERCE United States Patent and Trademark Of Sec. |
|--|--|
| OMB No 0654-0027: (exp. \$/30/2005) RECORDATION FORM PATENT | I COVER SHEET |
| | i record the attached documents or the new address(es) below. |
| 1. Name of conveying party(les)/Execution Date(s): Thomas Rueckes, Brent M. Segal, Bernhard Vogeli, Darren K. Brock Venkatachalam C. Jaiprakash and Claude L. Bertin 9/16/04; 9/14/04; 9/16/04; Execution Date(s) 10/8/04; 9/14/04; 11/22/04 Additional name(s) of conveying party(les) ettached? | 2 Name and address of receiving party(ies) Name: Name: |
| 3. Nature of conveyance: | |
| ✓ Assignment: | Gity: |
| Security Agreement Change of Name Government Interest Assignment | State: Massachusetts |
| Executive Order 9424. Confirmatory License | Country: USA |
| Other 4: Application or patent number(s): | Additional name(s) & address(es) attached? Yes 🗹 do document is being filed together with a new application. |
| A. Patent Application No. (s) 10/810.962 Additional numbers at | B. Ratent No.(s) |
| 5. Name and address to whom correspondence concerning document should be mailed: | 6. Total πumber of applications and patents |
| Name: Wilmer Cutler Pickering Hale and DorriLLP | 7. Total fee (37.6FR 1.21(h) & 3.21)) \$20.00 |
| Internal Address: Peter Dichlara | Authorized to be charged by credif card Authorized to be charged to deposit account |
| Street Address: 60 State Street | ☐ Enclosed |
| The second secon | None required (government interest not affecting tile) 8 Payment information |
| City Boston | a Credit Card Last / Numbers |
| StateZip: 92109 Phone Number: 617-526-6466 | Expiration Date |
| Fax Number 617-526 5000 | hand be begonst Account Number |
| Email Address: | Authorized User Name Peter Dichiar |
| 9. Signature Signature | 12/23/2004 Date |
| Peter Dichlara | Total number of pages including cover speet, attachments, and documents. |
| Name of Person Signing Documents to be recorded (Including cover she | b) should be faxed to (703) 306-5995, or malied to |
| Mail Stop Assignment Recordation Services, Director | of the |
| | PATENT |

ASSIGNMENT

WHEREAS, we, Thomas Rueckes, being a citizen of Germany, residing at 8 West Hill Place, Boston, Massachusetts 02114; Brent M. Segal, being a citizen of the United States, residing at 8 Prospect Avenue #1, Woburn, Massachusetts 01801; Bernhard Vogeli, being a citizen of Switzerland, residing at 76 West Cedar Street #4R, Boston, Massachusetts 02114; Darren K. Brock, being a citizen of the United States, residing at 94 Nob Hill Drive, Elmsford, New York 10523; Venkatachalam C. Jaiprakash, being a citizen of India, residing at 3184 Ingersoll Place, Fremont, California 94538; and Claude L. Bertin, being a citizen of the United States, residing at 33 Pheasant Way, South Burlington, Vermont 05403, are the inventors of certain new and useful inventions and discoveries, for which we have made an application for Letters Patent entitled NRAM Bit Selectable Two-Device Nanotube Array, the specification of which was filed on March 26, 2004 with the United States Patent and Trademark Office and assigned Serial No. 10/810,962; and

WHEREAS, Nantero, Inc. a corporation of Delaware, whose address is 25-D Olympia Avenue, Woburn, MA 01801, and which, together with its successors and assigns is hereinafter called "ASSIGNEE," is desirous of acquiring the title, rights, benefits, and privileges hereinafter recited;

NOW, THEREFORE, for and in consideration of good and valuable consideration furnished by ASSIGNEE to us, receipt and sufficiency of which we hereby acknowledge, we hereby, without reservations:

1. Assign, transfer, and convey to ASSIGNEE the entire right, title, and interest in and to said inventions and discoveries, said application for Letters Patent, any and all other applications for Letters Patent on said inventions and discoveries in whatsoever countries, including all divisional, renewal, substitute, continuation, continuation-in-part, and convention applications based in whole, or in part, upon said inventions or discoveries, or upon said applications, and any and all Letters Patents, reissues, and extensions of Letters Patent granted for said inventions and discoveries or upon said applications, and every priority right that is or may be predicated upon, or arise from, said inventions, said discoveries, said applications, and said Letters Patent;

- 2. Authorize ASSIGNEE to file patent applications in any or all countries on any or all of said inventions and discoveries in our names or in the name of ASSIGNEE or otherwise as ASSIGNEE may deem advisable, under International Conventions or otherwise;
- 3. Authorize and request the Commissioner of Patents and Trademarks of the United States of America and the empowered officials of all other governments throughout the world to issue or transfer all said Letters Patents to ASSIGNEE, as assignee of the entire right, title, and interest therein or otherwise as ASSIGNEE may direct;
- 4. Warrant that we have not knowingly conveyed to others any right in said inventions, discoveries, applications, or patents, or any license to use the same, or to make, use, or sell anything embodying or utilizing any of said inventions or discoveries; and that we have good right to assign the same to ASSIGNEE without encumbrance;
- ASSIGNEE's request and at ASSIGNEE's expense, but without additional consideration to us or them, all acts reasonably serving to assure that said inventions and discoveries, said patent applications, and said Letters Patents shall be held and enjoyed by ASSIGNEE as fully and entirely as the same could have been held and enjoyed by us, our heirs, legal representatives, and assigns if this Assignment had not been made; and particularly to execute and deliver to ASSIGNEE all lawful application documents including petitions, specifications, and oaths, and all assignments, disclaimers, and lawful affidavits in form and substance as may be requested by ASSIGNEE; and to communicate to ASSIGNEE all facts known to us relating to said inventions and discoveries or the history thereof, and to testify as to the same in any court or proceeding; and to furnish ASSIGNEE any and all documents, photographs, models, samples, and other physical exhibits in our control or in the control of our heirs, legal representatives, or assigns which may be useful for establishing the facts of our conceptions, disclosures, and reduction to practice of said inventions and discoveries.

IN TESTIMONY WHEREOF, I have hereunto set my hand and seal. Date

Thomas Rueckes

State of Massach Setts

County of Essex

Thomas Rueckes County of Essex On this _____ day of _____, 2004, before me, the undersigned notary public, personally appeared <u>Thomas Rueckes</u>, proved to me through satisfactory evidence of identification, which were NA Person Known, to be the person whose name is signed on the preceding or attached document, and who swore or affirmed to me that the contents of the document are truthful and accurate to the best of his/her knowledge and belief. My Commission Expires: , Notary Public IN TESTIMONY WHEREOF, I have hereunto set my hand and seal. State of Massachuseffs)

County of Essex

On this 4 day of September, 2004, before me, the undersigned notary public, personally appeared Brent M. Segal, proved to me through satisfactory evidence of identification, which were N/A Parameters and who swore or affirmed to me that the is signed on the preceding or attached document, and who swore or affirmed to me that the contents of the document are truthful and accurate to the best of his/her knowledge and belief. My Commission Expires: 1 - 29 - 2010

| | | Atty. Docket No. 112020.145 US2 (NAN-21) |
|---|--|--|
| IN TESTIMO | ONY WHEREOF, I have her | reunto set my hand and seal. |
| | | |
| | Date | Bernhard Vogeli |
| State of Ma | assadhusetta) | |
| County of | Eszes) | |
| identification is signed on | nally appeared <u>Bernhard V</u> n, which were the preceding or attached do | , 2004, before me, the undersigned notary ogeli, proved to me through satisfactory evidence of, to be the person whose name cument, and who swore or affirmed to me that the l accurate to the best of his/her knowledge and belief. |
| | | , Notary Public My Commission Expires: |
| IN TESTIM | ONY WHEREOF, I have he | reunto set my hand and seal. |
| | | Darren K. Brock |
| State of A | (assechaseH) (Essex | |
| public, perso identification is signed on | On this day of onally appeared Darren K. I n, which were / the preceding or attached do | |

| | Atty. Docket No. 112020.145 US2 (NAN-21) |
|---|--|
| IN TESTIMONY WHEREOF, I have here: | into set my hand and seal. |
| 9-14-04 | James |
| Date | Venkataghalagh C. Jaiprakash |
| State of Massachusetts) | |
|) Trees | |
| County of ESSAT) | e. |
| On this 14 th day of Sept | مراسع, 2004, before me, the undersigned notary |
| evidence of identification, which were | C. Jaiprakash, proved to me through satisfactory A Parady Frank, to be the person trached document, and who swore or affirmed to athful and accurate to the best of his/her knowledge |
| | 111 |
| | <u> </u> |
| | Notary Public My Commission Expires: 1 29 2013 |
| IN TESTIMONY WHEREOF, I have here | unto set my hand and seal. |
| · | _ |
| | |
| Date | Claude L. Bertin |
| State of Massachusetts) County of Essex | |
| County of Essex) | |
| public, personally appeared Claude L. Beridentification, which were is signed on the preceding or attached docu | , 2004, before me, the undersigned notary tin, proved to me through satisfactory evidence of the person whose name ment, and who swore or affirmed to me that the ccurate to the best of his/her knowledge and belief. |
| | M \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ |
| | , Notary Public My Commission Expires: 1-29-2010 |
| | |

ASSIGNMENT

WHEREAS, we, Thomas Rueckes, being a citizen of Germany, residing at 8 West Hill Place, Boston, Massachusetts 02114; Brent M. Segal, being a citizen of the United States, residing at 8 Prospect Avenue #1, Woburn, Massachusetts 01801; Bernhard Vogeli, being a citizen of Switzerland, residing at 76 West Cedar Street #4R, Boston, Massachusetts 02114; Darren K. Brock, being a citizen of the United States, residing at 94 Nob Hill Drive, Elmsford, New York 10523; Venkatachalam C. Jaiprakash, being a citizen of India, residing at 3184 Ingersoll Place, Fremont, California 94538; and Claude L. Bertin, being a citizen of the United States, residing at 33 Pheasant Way, South Burlington, Vermont 05403, are the inventors of certain new and useful inventions and discoveries, for which we have made an application for Letters Patent entitled NRAM Bit Selectable Two-Device Nanotube Array, the specification of which was filed on March 26, 2004 with the United States Patent and Trademark Office and assigned Serial No. 10/810,962; and

WHEREAS, Nantero, Inc. a corporation of Delaware, whose address is 25-D Olympia Avenue, Woburn, MA 01801, and which, together with its successors and assigns is hereinafter called "ASSIGNEE," is desirous of acquiring the title, rights, benefits, and privileges hereinafter recited;

NOW, THEREFORE, for and in consideration of good and valuable consideration furnished by ASSIGNEE to us, receipt and sufficiency of which we hereby acknowledge, we hereby, without reservations:

1. Assign, transfer, and convey to ASSIGNEE the entire right, title, and interest in and to said inventions and discoveries, said application for Letters Patent, any and all other applications for Letters Patent on said inventions and discoveries in whatsoever countries, including all divisional, renewal, substitute, continuation, continuation-in-part, and convention applications based in whole, or in part, upon said inventions or discoveries, or upon said applications, and any and all Letters Patents, reissues, and extensions of Letters Patent granted for said inventions and discoveries or upon said applications, and every priority right that is or may be predicated upon, or arise from, said inventions, said discoveries, said applications, and said Letters Patent;

- Authorize ASSIGNEE to file patent applications in any or all countries on any or all of said inventions and discoveries in our names or in the name of ASSIGNEE or otherwise as ASSIGNEE may deem advisable, under International Conventions or otherwise;
- 3. Authorize and request the Commissioner of Patents and Trademarks of the United States of America and the empowered officials of all other governments throughout the world to issue or transfer all said Letters Patents to ASSIGNEE, as assignee of the entire right, title, and interest therein or otherwise as ASSIGNEE may direct;
- 4. Warrant that we have not knowingly conveyed to others any right in said inventions, discoveries, applications, or patents, or any license to use the same, or to make, use, or sell anything embodying or utilizing any of said inventions or discoveries; and that we have good right to assign the same to ASSIGNEE without encumbrance;
- ASSIGNEE's request and at ASSIGNEE's expense, but without additional consideration to us of them, all acts reasonably serving to assure that said inventions and discoveries, said patent applications, and said Letters Patents shall be held and enjoyed by ASSIGNEE as fully and entirely as the same could have been held and enjoyed by us, our heirs, legal representatives, and assigns if this Assignment had not been made; and particularly to execute and deliver to ASSIGNEE all lawful application documents including petitions, specifications, and oaths, and all assignments, disclaimers, and lawful affidavits in form and substance as may be requested by ASSIGNEE; and to communicate to ASSIGNEE all facts known to us relating to said inventions and discoveries or the history thereof, and to testify as to the same in any court or proceeding; and to furnish ASSIGNEE any and all documents, photographs, models, samples, and other physical exhibits in our control or in the control of our heirs, legal representatives, or assigns which may be useful for establishing the facts of our conceptions, disclosures, and reduction to practice of said inventions and discoveries.

| Atty. Docket No. | 112020.145 | US2 (| NAN-21 |
|------------------|------------|-------|--------|

| | Atty. Docket No. 112020.145 US2 (NAN-21 |
|---|--|
| IN TESTIMONY WHEREOF, I have hereur | nto set my hand and seal. |
| | The Development of the Control of th |
| Date | Thomas Rueckes |
| State of) | |
| County of) | |
| public, personally appeared <u>Thomas Rueck</u> identification, which were is signed on the preceding or attached docum | , 2004, before me, the undersigned notary es, proved to me through satisfactory evidence of, to be the person whose name nent, and who swore or affirmed to me that the curate to the best of his/her knowledge and belief. |
| | My Commission Expires:, Notary Public |
| IN TESTIMONY WHEREOF, I have hereu | nto set my hand and seal. |
| Date | Brent M. Segal |
| State of) | |
| County of) | |
| identification, which wereis signed on the preceding or attached docur | , 2004, before me, the undersigned notary l, proved to me through satisfactory evidence of to be the person whose name ment, and who swore or affirmed to me that the curate to the best of his/her knowledge and belief. |
| | , Notary Public My Commission Expires: |

-3-

| | Atty, Docket No. 112020.145 US2 (NAN-21) |
|---|--|
| N TESTIMONY WHEREOF, I have hereun | to set my hand and seal. |
| 9/16/2004 | [le |
| Date | Bernhard Vogeli |
| State of) | |
| County of) | |
| public, personally appeared Bernhard Vogel identification, which were | j., 2004, before me, the undersigned notary li, proved to me through satisfactory evidence of to be the person whose name lent, and who swore or affirmed to me that the curate to the best of his/her knowledge and belief. |
| | , Notary Public My Commission Expires: |
| IN TESTIMONY WHEREOF, I have hereur | nto set my hand and seal. |
| Date | Darren K. Brock |
| State of) | |
| County of) | |
| public, personally appeared <u>Darren K. Broo</u> identification, which were is signed on the preceding or attached docum | , 2004, before me, the undersigned notary ck, proved to me through satisfactory evidence of, to be the person whose name nent, and who swore or affirmed to me that the curate to the best of his/her knowledge and belief. |
| | , Notary Public My Commission Expires: |

4

| Atts: Docket No. | 112020 | 145 US2 | MAN-211 |
|------------------|--------|---------|---------|

Atty, Docket No. 112020.145 US2 (NAN-21) IN TESTIMONY WHEREOF, I have hereunto set my hand and seal. Venkatachalam C. Jaiprakash Date State of County of On this _____ day of _____, 2004, before me, the undersigned notary public, personally appeared Venkatachala C. Jaiprakash, proved to me through satisfactory evidence of identification, which were ______, to be the person whose name is signed on the preceding or attached document, and who swore or affirmed to me that the contents of the document are truthful and accurate to the best of his/her knowledge and belief. My Commission Expires: _____, Notary Public IN TESTIMONY WHEREOF, I have hereunto set my hand and seal. Date Claude L. Bertin State of County of On this _____ day of _____, 2004, before me, the undersigned notary public, personally appeared Claude L. Bertin, proved to me through satisfactory evidence of to be the person whose name identification, which were is signed on the preceding or attached document, and who swore or affirmed to me that the contents of the document are truthful and accurate to the best of his/her knowledge and belief. ____, Notary Public My Commission Expires:

-5-

| SWISS CONFEDERATION |) | |
|---------------------------|---|----|
| CANTON AND CITY OF ZURICH |) | |
| CONSULAR AGENCY OF THE |) | SS |
| UNITED STATES OF AMERICA |) | |

I, Ellen Bruckmann, Consular Agent of the United States of America at Zurich, Switzerland, duly commissioned and qualified, do hereby certify that on this 16th day of September 2004 before me personally appeared **Bernhard Voegeli**, personally known and known to me to be the individual (s) described in, whose name (s) is/are subscribed to, and produced a Swiss Identity Card as identification and who executed the foregoing instrument, and being informed by me of the contents thereof and duly acknowledged to me that he/she/they executed the same freely and voluntarily for the uses and purposes therein mentioned.

In witness whereof I have hereunto set my hand and official seal the day and year last above written.

Ellen A. Bruckmann Consular Agent of the United States of America

My commission expires indefinitely



ASSIGNMENT

WHEREAS, we, Thomas Rueckes, being a citizen of Germany, residing at 8 West Hill Place, Boston, Massachusetts 02114; Brent M. Segal, being a citizen of the United States, residing at 8 Prospect Avenue #1, Woburn, Massachusetts 01801; Bernhard Vogeli, being a citizen of Switzerland, residing at 76 West Cedar Street #4R, Boston, Massachusetts 02114; Darren K. Brock, being a citizen of the United States, residing at 94 Nob Hill Drive, Elmsford, New York 10523; Venkatachalam C. Jaiprakash, being a citizen of India, residing at 3184 Ingersoll Place, Fremont, California 94538; and Claude L. Bertin, being a citizen of the United States, residing at 33 Pheasant Way, South Burlington, Vermont 05403, are the inventors of certain new and useful inventions and discoveries, for which we have made an application for Letters Patent entitled NRAM Bit Selectable Two-Device Nanotube Array, the specification of which was filed on March 26, 2004 with the United States Patent and Trademark Office and assigned Serial No. 10/810,962; and

WHEREAS, Nantero, Inc. a corporation of Delaware, whose address is 25-D Olympia Avenue, Woburn, MA 01801, and which, together with its successors and assigns is hereinafter called "ASSIGNEE," is desirous of acquiring the title, rights, benefits, and privileges hereinafter recited;

NOW, THEREFORE, for and in consideration of good and valuable consideration furnished by ASSIGNEE to us, receipt and sufficiency of which we hereby acknowledge, we hereby, without reservations:

1. Assign, transfer, and convey to ASSIGNEE the entire right, title, and interest in and to said inventions and discoveries, said application for Letters Patent, any and all other applications for Letters Patent on said inventions and discoveries in whatsoever countries, including all divisional, renewal, substitute, continuation, continuation-in-part, and convention applications based in whole, or in part, upon said inventions or discoveries, or upon said applications, and any and all Letters Patents, reissues, and extensions of Letters Patent granted for said inventions and discoveries or upon said applications, and every priority right that is or may be predicated upon, or arise from, said inventions, said discoveries, said applications, and said Letters Patent:

- 2. Authorize ASSIGNEE to file patent applications in any or all countries on any or all of said inventions and discoveries in our names or in the name of ASSIGNEE or otherwise as ASSIGNEE may deem advisable, under International Conventions or otherwise;
- 3. Authorize and request the Commissioner of Patents and Trademarks of the United States of America and the empowered officials of all other governments throughout the world to issue or transfer all said Letters Patents to ASSIGNEE, as assignee of the entire right, title, and interest therein or otherwise as ASSIGNEE may direct;
- 4. Warrant that we have not knowingly conveyed to others any right in said inventions, discoveries, applications, or patents, or any license to use the same, or to make, use, or sell anything embodying or utilizing any of said inventions or discoveries; and that we have good right to assign the same to ASSIGNEE without encumbrance;
- ASSIGNEE's request and at ASSIGNEE's expense, but without additional consideration to us of them, all acts reasonably serving to assure that said inventions and discoveries, said patent applications, and said Letters Patents shall be held and enjoyed by ASSIGNEE as fully and entirely as the same could have been held and enjoyed by us, our heirs, legal representatives, and assigns if this Assignment had not been made; and particularly to execute and deliver to ASSIGNEE all lawful application documents including petitions, specifications, and oaths, and all assignments, disclaimers, and lawful affidavits in form and substance as may be requested by ASSIGNEE; and to communicate to ASSIGNEE all facts known to us relating to said inventions and discoveries or the history thereof, and to testify as to the same in any court or proceeding; and to furnish ASSIGNEE any and all documents, photographs, models, samples, and other physical exhibits in our control or in the control of our heirs, legal representatives, or assigns which may be useful for establishing the facts of our conceptions, disclosures, and reduction to practice of said inventions and discoveries.

PATENT REEL: 015496 FRAME: 0208

004 15:48 FAX

| | Atty. Docket No. 112020.145 US2 (NAN-21) |
|---|---|
| IN TESTIMONY WHEREOF, I have h | - |
| | |
| | |
| Date | Thomas Rueckes |
| State of) | |
| County of) | |
| On this day of | , 2004, before me, the undersigned notary |
| public, personally appeared Thomas Ri | <u>reckes, proved to me through satisfactory evidence of</u> |
| identification, which were | to be the person whose name |
| contents of the document are truthful an | ocument, and who swore or affirmed to me that the d accurate to the best of his/her knowledge and belief. |
| | - we make the transfer mis waste and belief. |
| | NT 4 70 14' |
| | My Commission Expires:, Notary Public |
| | |
| IN TESTIMONY WHEREOF, I have he | ercunto set my hand and seal. |
| | |
| | |
| Date | Brent M. Segal |
| State of) | |
| County of) | |
| , | |
| On this day of | , 2004, before me, the undersigned notary |
| public, personally appeared Brent M. S | egal, proved to me through satisfactory evidence of |
| is signed on the preceding or attached do | to be the person whose name ocument, and who swore or affirmed to me that the |
| contents of the document are truthful and | d accurate to the best of his/her knowledge and belief. |
| | 2 |
| | Noton: Dublic |
| | , Notary Public My Commission Expires: |
| | · |
| | |

| Atty, Docket No. | 112020 | 145 Y 192 | CHAIN |
|------------------|--------|-----------|-------|

IN TESTIMONY WHEREOF, I have hereunto set my hand and seal.

| TO THE PROPERTY OF THE PARTY OF | nercumo set my nand and seat. |
|--|---|
| | |
| <u> </u> | |
| Date | Bernhard Vogeli |
| State of) | |
| County of | |
| identification, which were is signed on the preceding or attached | , 2004, before me, the undersigned notary Vogeli, proved to me through satisfactory evidence of , to be the person whose name document, and who swore or affirmed to me that the and accurate to the best of his/her knowledge and belief. |
| | , Notary Public My Commission Expires: |
| IN TESTIMONY WHEREOF, I have I | hereunto set my hand and seal. |
| Date | Darren K. Brock |
| State of) County of) | |
| On this day of day of public, personally appeared <u>Darren K.</u> identification, which were day of is signed on the preceding or attached d | Brock, proved to me through satisfactory evidence of Person whose name locument, and who swore or affirmed to me that the ad accurate to the best of his/her knowledge and belief. My Commission Expires: 1-29-2010 |

4_

| Atty, Docket No. | 112020.145 US2 (NAN-21 |
|------------------|------------------------|

IN TESTIMONY WHEREOF, I have hereunto set my hand and seal. Date Venkatachalam C. Jaiprakash State of County of On this _____ day of _____, 2004, before me, the undersigned notary public, personally appeared Venkatachala C. Jaiprakash, proved to me through satisfactory evidence of identification, which were ______, to be the person whose name is signed on the preceding or attached document, and who swore or affirmed to me that the contents of the document are truthful and accurate to the best of his/her knowledge and belief. ____, Notary Public My Commission Expires: IN TESTIMONY WHEREOF, I have hereunto set my hand and seal. Claud L State of MASS County of ESSEXOn this 22 day of 10 day, 2004, before me, the undersigned notary public, personally appeared Claude L. Bertin, proved to me through satisfactory evidence of identification, which were NA Personal G Know to be the person whose name is signed on the preceding or attached document, and who swore or affirmed to me that the contents of the document are truthful and accurate to the best of his/her knowledge and belief.

-5-