| Form PTO-1595 (Rev. 06/04) OMB No. 0651-0027 (exp. 6/30/2005) | U.S. DEPARTMENT OF COMMERCE _United States Patent and Trademark Office |
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| RECORDATION FOR PATENT | |
| To the Director of the U.S. Patent and Trademark Office: Pleas | se record the attached documents or the new address(es) below. |
| Name of conveying party(ies)/Execution Date(s): Brent M. Segal; Thomas Rueckes; Bernhard Vogeli; Darren Brock; Venkatachalam C. Jaiprakash; Claude L. Bertin 9/14/04; 9/16/04; | 2. Name and address of receiving party(ies) Name: |
| Execution Date(s)10/8/04; 9/14/04; 11/22/04 Additional name(s) of conveying party(ies) attached? Yes No 3. Nature of conveyance: | Street Address: 25-D Olympia Avenue |
| Assignment Merger | City: |
| Security Agreement Change of Name | State:Massachusetts |
| Government Interest Assignment Executive Order 9424, Confirmatory License | Country: USA Zip: 01801 |
| Other | Additional name(s) & address(es) attached? Yes Vo |
| A. Patent Application No.(s) 10/844,913 Additional numbers at | B. Patent No.(s) tached? Yes No |
| 5. Name and address to whom correspondence concerning document should be mailed: | 6. Total number of applications and patents involved: |
| Name: Wilmer Cutler Pickering Hale and Dorr LLP | 7. Total fee (37 CFR 1.21(h) & 3.41) \$40.00 |
| Internal Address: Peter M. Dichiara | Authorized to be charged by credit card Authorized to be charged to deposit account |
| Street Address: 60 State Street | Enclosed None required (government interest not affecting title) |
| City: Boston | 8. Payment Information |
| State: MA Zip: 02109 | a. Credit Card Last 4 Numbers Expiration Date |
| Phone Number: 617-526-6466 | b. Deposit Account Number08-0219 |
| Fax Number: 617-526-5000 Email Address: | Authorized User Name Peter M. Dichiara |
| 9. Signature: | 2-17-05 |
| Signature | Date |
| Peter M. Dichiara Name of Person Signing | Total number of pages including cover sheet, attachments, and documents: |

Documents to be recorded (including cover sheet) should be faxed to (703) 306-5995, or mailed to: Mail Stop Assignment Recordation Services, Director of the

ASSIGNMENT

WHEREAS, we, Brent M. Segal, being a citizen of the United States, residing at 8
Prospect Avenue #1, Woburn, Massachusetts 01801; Thomas Rueckes, being a citizen of
Germany, residing at 8 West Hill Place, Boston, Massachusetts 02114; Bernhard Vogeli, being
a citizen of Switzerland, residing at 76 West Cedar Street #4R, Boston, Massachusetts 02114;
Darren 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 Sensor Platform Using a Horizontally Oriented Nanotube Element,
the specification of which was filed on May 12, 2004 with the United States Patent and
Trademark Office and assigned Serial No. 10/844,913; 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.

| | Atty. Docket No. 112020.154 US2 (NAN-29) |
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| IN TESTIMONY WHEREOF, I have hereunto set my | hand and seal. |
| 9/14/04 Bou | of M Segue |
| State of Massachusetts) County of Essix Yh See lembs | Michigan Segai |
| County of Esymp | ~~ |
| On this day of, 2 public, personally appeared Brent M. Segal , proved to | - Kusum to be the person whose name who swore or affirmed to me that the |
| 1 d | <u> </u> |
| $\frac{l}{\text{My Com}}$ | mes Acheron, Notary Public mission Expires: (-29-2010 |
| IN TESTIMONY WHEREOF, I have hereunto set my | v hand and seal. |
| 09/16/04 Than- | , Pel |
| State of Massachuse Hts) | Thomas Rueckes |
| County of Essex) | 2004, before me, the undersigned notary |
| public, personally appeared Thomas Rueckes, proved identification, which were NA personally have is signed on the preceding or attached document, and contents of the document are truthful and accurate to the second seco | I to me through satisfactory evidence of, to be the person whose name who swore or affirmed to me that the |
| Save My Com | M Notary Public mission Expires: 1-29-2-10 |
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IN TESTIMONY WHEREOF, I have hereunto set my hand and seal.

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| Date | Bernhard Vogeli |
| State of Massachisetts) County of Essex | (ou other) |
| County of Essex | (form) |
| identification, which were N A DesCon- is signed on the preceding or attached doc | , 2004, before me, the undersigned notary notation peeli, proved to me through satisfactory evidence of to be the person whose name ument, and who swore or affirmed to me that the accurate to the best of his/her knowledge and belief |
| | , Notary Public My Commission Expires: \ 7.0\0 |
| IN TESTIMONY WHEREOF, I have here | Santo Sot Iny Italia alia Scal. |
| /0/e/оч Date | Darren Brock |
| State of Massachusetts | 2004, before me, the undersigned notary |
| County of Essex) | 1. |
| On this day of | , 2004, before me, the undersigned notary |
| r, r, uppoint <u>= 411 un 1</u> 11 uci | s, proved to me through satisfactory evidence of, to be the person whose name |
| is signed on the preceding or attached docu | iment, and who swore or affirmed to me that the |
| contents of the document are truthful and a | accurate to the best of his/her knowledge and belief. |
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| | My Commission Expires: _25 - 25\0 |

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

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| Date State of Massach-satts | Venkatachalam C Jaiprakash |
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| County of Essex | |
| On this $\frac{14^7}{4}$ day of $\frac{5}{4}$ | nfewlar, 2004, before me, the undersigned notary am C. Jaiprakash, proved to me through |
| satisfactory evidence of identification, wh | ich were MA persant base, to be |
| the person whose name is signed on the p | receding or attached document, and who swore or |
| affirmed to me that the contents of the do knowledge and belief. | cument are truthful and accurate to the best of his/her |
| _ | 1m 1 - |
| | James Achesm, Notary Public |
| | My Commission Expires: _25\ - 20\0 |
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| 20/2 2 1/ | May 1 P D The |
| 2 Nov. 2004 | Claude L. Bertin |
| State of Maisahusetty) | |
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| On this 22 day of Λ | |
| On this 22 day of | bovemby, 2004, before me, the undersigned notary |
| 1 · · · · · · · · · · · · · · · · · · · | run, proved to me through satisfactory evidence of |
| is signed on the preceding or attached doc | who swore or affirmed to me that the |
| contents of the document are truthful and | accurate to the best of his/her knowledge and helief |
| | Jams Acheson Notary Public My Commission Expires: 1-73 - 2-1 |
| | James Acheson , Notary Public |
| | My Commission Expires: \- てれ・2016 |

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ASSIGNMENT

WHEREAS, we, Brent M. Segal, being a citizen of the United States, residing at 8 Prospect Avenue #1, Woburn, Massachusetts 01801; Thomas Rueckes, being a citizen of Germany, residing at 8 West Hill Place, Boston, Massachusetts 02114; Bernhard Vogeli, being a citizen of Switzerland, residing at 76 West Cedar Street #4R, Boston, Massachusetts 02114; Darren 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 Sensor Platform Using a Horizontally Oriented Nanotube Element, the specification of which was filed on May 12, 2004 with the United States Patent and Trademark Office and assigned Serial No. 10/844,913; 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 | Brent M. Segal |
|---|--|
| State of |) |
| _ | j |
| County of |) |
| dentification, which were signed on the preceding or a | day of, 2004, before me, the undersigned notary rent M. Segal, proved to me through satisfactory evidence of to be the person whose nan attached document, and who swore or affirmed to me that the ruthful and accurate to the best of his/her knowledge and belief |
| | , Notary Public My Commission Expires: |
| N TESTIMONY WHEREOF | I have hereunto set my hand and seal. |
| | |
| Date | I have hereunto set my hand and seal. Thomas Rueckes |
| Date | |
| Date tate of | |
| Date tate of county of On this dublic, personally appeared <u>Thelentification</u> , which were signed on the preceding or at | |

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| Atty. Docket No. 112020.153 US2 (J |
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IN TESTIMONY WHEREOF, I have hereunto set my hand and seal. State of County of On this __day of __ _____, 2004, before me, the undersigned notary public, personally appeared Bernhard Vogeli, 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. Date Darren Brock State of County of On this _____, day of _____, 2004, before me, the undersigned notary public, personally appeared Darren Brock, 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

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BOSTON 1967655v1

| Date | Venkatachalam C. Jaiprakash |
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| State of |) |
| County of |) |
| satisfactory evidence of ic the person whose name is | |
| | Notary Public |
| | My Commission Expires:, Notary Public |
| IN TESTIMONY WHERI | My Commission Expires: |
| IN TESTIMONY WHERI | <u> </u> |
| Date | PF, I have hereunto set my hand and seal. |
| | PF, I have hereunto set my hand and seal. |
| Date State of County of On this public, personally appeared dentification, which were is signed on the preceding | Claude L. Bertin day of, 2004, before me, the undersigned notary |

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BOSTON 1967655vi

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

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PATENT REEL: 015730 FRAME: 0423

RECORDED: 02/17/2005