

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>Daniel Branton</td> <td>02/10/2009</td> </tr> <tr> <td>Jene A. Golovchenko</td> <td>02/10/2009</td> </tr> <tr> <td>Slaven Garaj</td> <td>02/26/2009</td> </tr> <tr> <td>Dimitar M. Vlassarev</td> <td>02/26/2009</td> </tr> <tr> <td>El-Hadi S. Sadki</td> <td>03/01/2009</td> </tr> </tbody> </table> | | Name | Execution Date | Daniel Branton | 02/10/2009 | Jene A. Golovchenko | 02/10/2009 | Slaven Garaj | 02/26/2009 | Dimitar M. Vlassarev | 02/26/2009 | El-Hadi S. Sadki | 03/01/2009 |
| Name | Execution Date | | | | | | | | | | | | |
| Daniel Branton | 02/10/2009 | | | | | | | | | | | | |
| Jene A. Golovchenko | 02/10/2009 | | | | | | | | | | | | |
| Slaven Garaj | 02/26/2009 | | | | | | | | | | | | |
| Dimitar M. Vlassarev | 02/26/2009 | | | | | | | | | | | | |
| El-Hadi S. Sadki | 03/01/2009 | | | | | | | | | | | | |
| RECEIVING PARTY DATA | | | | | | | | | | | | | |
| Name: | President and Fellows of Harvard College | | | | | | | | | | | | |
| Street Address: | 17 Quincy Street | | | | | | | | | | | | |
| City: | Cambridge | | | | | | | | | | | | |
| State/Country: | MASSACHUSETTS | | | | | | | | | | | | |
| Postal Code: | 02138 | | | | | | | | | | | | |
| PROPERTY NUMBERS Total: 2 | | | | | | | | | | | | | |
| <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>12286849</td> </tr> <tr> <td>PCT Number:</td> <td>US0811413</td> </tr> </tbody> </table> | | Property Type | Number | Application Number: | 12286849 | PCT Number: | US0811413 | | | | | | |
| Property Type | Number | | | | | | | | | | | | |
| Application Number: | 12286849 | | | | | | | | | | | | |
| PCT Number: | US0811413 | | | | | | | | | | | | |
| CORRESPONDENCE DATA | | | | | | | | | | | | | |
| Fax Number: | (617)495-9568 | | | | | | | | | | | | |
| <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i> | | | | | | | | | | | | | |
| Phone: | 6174953067 | | | | | | | | | | | | |
| Email: | christine_izzo@harvard.edu | | | | | | | | | | | | |
| Correspondent Name: | Anne Craig | | | | | | | | | | | | |
| Address Line 1: | 1350 Massachusetts Avenue | | | | | | | | | | | | |
| Address Line 2: | Harvard Office of Technology Development | | | | | | | | | | | | |
| Address Line 4: | Cambridge, MASSACHUSETTS 02138 | | | | | | | | | | | | |
| ATTORNEY DOCKET NUMBER: | 3047 BRANTON | | | | | | | | | | | | |

OP \$80.00 12286849

NAME OF SUBMITTER:

Anne I. Craig

Total Attachments: 12

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ASSIGNMENT

For good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, the undersigned:

**Daniel Branton, Jene A. Golovchenko, Slaven Garaj,
Dimitar M. Vlassarev, & El-Hadi S. Sadki**

(hereafter "Assignors") hereby assign, sell, and transfer to:

**President and Fellows of Harvard College
17 Quincy Street, Cambridge, Massachusetts 02138**

(hereafter "Assignee") its successors and assigns, Assignors' entire right, title and interest throughout the world in and to any and all inventions and improvements for:

Carbon Nanotube Synthesis for Nanopore Devices

described in international Patent Application No. PCT/US2008/11413 filed October 2, 2008 and U.S. Patent Application No. 12/286,849 filed October 2, 2008 both which claim priority to U.S. Provisional Patent Application No. 60/997,297 filed October 2, 2007; and in and to the aforesaid application(s), in any form or embodiment thereof, and in and to any application filed in this and any foreign country based thereon, including the right to file said applications and claim priority under the provisions of any international convention or treaty; also the entire right, title and interest throughout the world in and to any and all patents or reissues or extensions thereof to be obtained in this or any foreign country upon said invention or inventions and any divisional, continuation, continuation-in-part or substitute applications which may be filed upon said invention or inventions in this or any foreign country; and authorize and request the issuing authority to issue any and all patents on said application or applications to said Assignee or its successors and assigns.

Assignors hereby warrant that they have full right to convey their entire right, title and interest, both legal and equitable, in and to said inventions, free from all prior assignments, agreements, licenses, mortgages, security interests, or other encumbrances whatsoever; and

Assignors further agree, without further payment or compensation by said Assignee or its successors and assigns, to communicate to said Assignee, its representatives or agents or its successors and assigns, any facts relating to said invention or inventions including evidence for interference purposes or for other legal proceedings, whenever requested; testify in any interference or other legal proceedings whenever requested; execute and deliver, on request, all lawful papers required to make any of the foregoing provisions effective; and generally do everything possible to aid said Assignee,

Patent Assignment
HU Case: 3047
Appln. No(s): PCT/US2008/11413 & US App 12/286,849

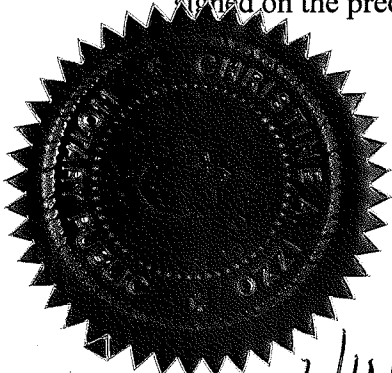
its representatives or agents, or its successors or assigns to secure, obtain and enforce proper patent protection for said invention or inventions in this and any foreign country.

Date: 10 Feb 2009

Daniel Branton
Daniel Branton

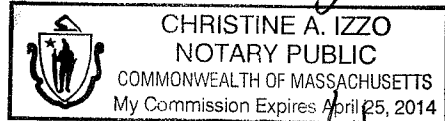
State of: Massachusetts
County of: Middlesex

On this 10th day of February, 2009, before me, the undersigned notary public, personally appeared **Daniel Branton**, proved to me through satisfactory evidence of identification, which were Harvard Univ. ID., to be the person whose name is signed on the preceding or attached document in my presence.



Date: 2/11/09

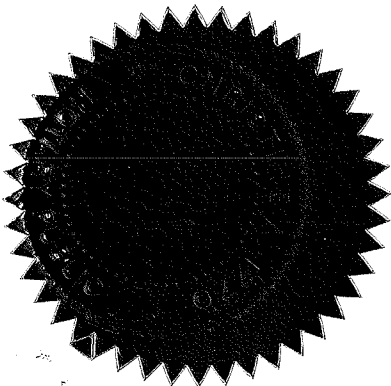
Christine A. Izzo
Notary Public



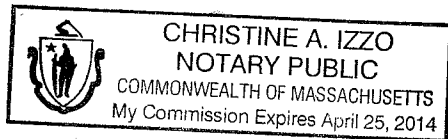
J. A. Golovchenko
Jene A. Golovchenko

State of: Massachusetts
County of: Middlesex

On this 10th day of February, 2009, before me, the undersigned notary public, personally appeared **Jene A. Golovchenko**, proved to me through satisfactory evidence of identification, which were Harvard Univ. ID., to be the person whose name is signed on the preceding or attached document in my presence.



Christine A. Izzo
Notary Public



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Date: _____

Slaven Garaj

State of: Massachusetts

County of: _____

On this ____ day of _____, 2009, before me, the undersigned notary public, personally appeared **Slaven Garaj**, proved to me through satisfactory evidence of identification, which were _____, to be the person whose name is signed on the preceding or attached document in my presence.

[SEAL]

Notary Public

Date: _____

Dimitar M. Vlassarev

State of: Massachusetts

County of: _____

On this ____ day of _____, 2009, before me, the undersigned notary public, personally appeared **Dimitar M. Vlassarev**, proved to me through satisfactory evidence of identification, which were _____, to be the person whose name is signed on the preceding or attached document in my presence.

[SEAL]

Notary Public

Patent Assignment
HU Case: 3047
Appln. No(s): PCT/US2008/11413 & US App 12/286,849

Date: _____

El-Hadi S. Sadki

WITNESSED BY:

Date: _____

Name of Witness

Address

Date: _____

Name of Witness

Address

Patent Assignment
HU Case: 3047
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Assignors hereby warrant that they have full right to convey their entire right, title and interest, both legal and equitable, in and to said inventions, free from all prior assignments, agreements, licenses, mortgages, security interests, or other encumbrances whatsoever; and

Assignors further agree, without further payment or compensation by said Assignee or its successors and assigns, to communicate to said Assignee, its representatives or agents or its successors and assigns, any facts relating to said invention or inventions including evidence for interference purposes or for other legal proceedings, whenever requested; testify in any interference or other legal proceedings whenever requested; execute and deliver, on request, all lawful papers required to make any of the foregoing provisions effective; and generally do everything possible to aid said Assignee,

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its representatives or agents, or its successors or assigns to secure, obtain and enforce proper patent protection for said invention or inventions in this and any foreign country.

Date: _____

Daniel Branton

State of: Massachusetts

County of: _____

On this ____ day of _____, 2009, before me, the undersigned notary public, personally appeared **Daniel Branton**, proved to me through satisfactory evidence of identification, which were _____, to be the person whose name is signed on the preceding or attached document in my presence.

[SEAL]

Notary Public

Date: _____

Jene A. Golovchenko

State of: Massachusetts

County of: _____

On this ____ day of _____, 2009, before me, the undersigned notary public, personally appeared **Jene A. Golovchenko**, proved to me through satisfactory evidence of identification, which were _____, to be the person whose name is signed on the preceding or attached document in my presence.

[SEAL]

Notary Public

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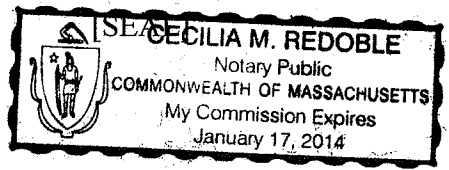
Date: 2/26/09

Slaven Garaj
Slaven Garaj

State of: Massachusetts
County of: MIDDLESEX

On this 26th day of FEBRUARY, 2009, before me, the undersigned notary public, personally appeared Slaven Garaj, proved to me through satisfactory evidence of identification, which were PERMANENT RESIDENT CARD, to be the person whose name is signed on the preceding or attached document in my presence.

[Signature]
Notary Public



Date: 2/26/09

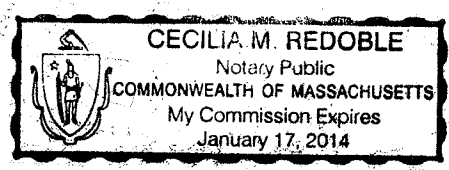
Dimitar M. Vlassarev
Dimitar M. Vlassarev

State of: Massachusetts
County of: MIDDLESEX

On this 26th day of FEBRUARY, 2009, before me, the undersigned notary public, personally appeared Dimitar M. Vlassarev, proved to me through satisfactory evidence of identification, which were DL VA A61-5077, to be the person whose name is signed on the preceding or attached document in my presence.

[Signature]
Notary Public

[SEAL]



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HU Case: 3047
Appln. No(s): PCT/US2008/11413 & US App 12/286,849

Date: _____

El-Hadi S. Sadki

WITNESSED BY:

Date: _____

Name of Witness

Address

Date: _____

Name of Witness

Address

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Date: _____

Daniel Branton

State of: Massachusetts
County of: _____

On this ____ day of _____, 2009, before me, the undersigned notary public, personally appeared **Daniel Branton**, proved to me through satisfactory evidence of identification, which were _____, to be the person whose name is signed on the preceding or attached document in my presence.

[SEAL]

Notary Public

Date: _____

Jene A. Golovchenko

State of: Massachusetts
County of: _____

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Slaven Garaj

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Notary Public

Date: _____

Dimitar M. Vlassarev

State of: Massachusetts
County of: _____


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Date: 03/11/2009



El-Hadi S. Sadki

WITNESSED BY:

Date: 03/11/2009

Mammar Benkraouda
Name of Witness

PO Box 17551
Address

UAE University
Al-Ain, UAE

Date: 03/11/2009

Saichon Srisuwan
Name of Witness

UAE University
Address

PO Box 17551
Al-Ain, UAE