DOCKET NO. H0498.70187US00

RECORDATION FORM COVER SHEET PATENTS ONLY

PATENTS ONLY				
FORM PTO-1595 U.S. (Rev. 8-93) OMB No. 0651-0011 (exp. 4/94)	DEPARTMENT OF COMMERCE Patent and Trademark Office			
To the Commissioner for Patents : Please recon	the attached original documents or copy thereof.			
1. Name of conveying party(ies): University of Southampton Additional name(s) of conveying party(ies) attached? [] Yes [X] No 3. Nature of conveyance: [X] Nunc Pro Tunc Assignment [] Merger [] Security Agreement [] Change of Name [] Other Execution Date: July 17, 2002	2. Name and address of receiving party(ies) Name: President and Fellows of Harvard Colleg 17 Quincy Street Cambridge, Massachusetts 02138 Additional name(s) & addresses(es) attached? [] Yes [X] No			
Application number(s) or patent number(s):				
If this document is being filed together with a new applic A. Patent Application No.(s) 10/196,337	tached? [] Yes [X] No 6. Total number of applications and patents involved: [1] 7. Total fee (37 CFR 3.41) [] Enclosed [X] Authorized to be charged to deposit account The Commissioner is authorized to charge any deficiencies in the enclosed payment to: 8. Deposit Account No: 23/2825			
DO NOT USE THIS SPACE				
9. Statement and signature To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document. A C C C C C C C C C				
Timothy J. Oyer, Ph.D. Name of Person Signing	March 31, 2004			
Name of Person Signing Signature Date Total number of pages including cover sheet, attachments, and document: [Nine]				

Mail documents to be recorded with required cover sheet information to (modify as appropriate):

Mail Stop Assignment Recordation Services 781405

Director - U.S. Patent and Trademark Office (when filed separately from a new application)

Commissioner of Patents (when filed with a new application)

PO Box 1450, Alexandria, VA 22313-1450

H0498.70187US00

NUNC PRO TUNC ASSIGNMENT

This Agreement is made by and between the University of Southampton, of University Road, Highfield, Southampton SO17 1BJ, a legal body organized under the laws of England ("SOUTHAMPTON"); David C. Smith, of 1, Mullion Court, Franklin Street, Reading, RG1 7YF, United Kingdom ("SMITH"); and the President and Fellows of Harvard College, a nonprofit Massachusetts educational corporation having offices at 17 Quincy Street, Cambridge, Massachusetts 02138 ("HARVARD").

This Agreement concerns the entire right, title, and interest in and to any invention or inventions made by SMITH disclosed and/or claimed in any of the following patent applications, hereinafter referred to as "SMITH INTELLECTUAL PROPERTY":

U.S. patent application serial no. 10/152,490, filed May 20, 2002, international patent application serial no. PCT/US02/16133, filed May 20, 2002, and U.S. patent application serial no. 10/196,337, filed July 16, 2002, each entitled "Nanoscale Wires and Related Devices", and related cases worldwide.

WHEREAS, on October 11, 2002 SMITH executed a document purporting to sell, assign, and transfer to the President and Fellows of Harvard College, his entire right, title and interest in SMITH INTELLECTUAL PROPERTY, specifically noting U.S. patent application serial no. 10/196,337; and

WHEREAS, both SMITH and SOUTHAMPTON agree that pursuant to an employment agreement between SMITH and SOUTHAMPTON effective at a period of time during which SMITH contributed inventively to any and all SMITH INTELLECTUAL PROPERTY, any and all of said SMITH INTELLECTUAL PROPERTY was owned by SOUTHAMPTON; and

WHEREAS, SOUTHAMPTON entered into an agreement with HARVARD dated January 1, 2003 purporting to assign and convey to HARVARD absolutely all right, title, and interest in and to said SMITH INTELLECTUAL PROPERTY, specifically noting U.S. patent

application serial no. 10/152,490, and corresponding international patent application serial no. PCT/US02/16133; and

WHEREAS, SMITH, SOUTHAMPTON and HARVARD all agree that all right, title, and interest in and to SMITH INTELLECTUAL PROPERTY properly resides in HARVARD, and wish to confirm ownership of all right, title, and interest in and to SMITH INTELLECTUAL PROPERTY in HARVARD or to transfer SMITH INTELLECTUAL PROPERTY to HARVARD.

NOW, THEREFORE, in consideration of \$1.00 and other good and valuable consideration, the receipt of which is hereby acknowledged;

SMITH does hereby sell, assign, and transfer to SOUTHAMPTON, *nunc pro tunc* July 16, 2002, his entire, right, title, and interest for the United States and all foreign countries, in and to SMITH INTELLECTUAL PROPERTY, and in and to said applications and any and all priority applications to which said applications relate, and in and to all divisional, continuing, substitute, renewal, reissue and all other applications for Letters Patent which have been or shall be filed in the United States and all foreign countries relating to these applications, and in and to all original and reissued patents which have been or shall be issued in the United States and all foreign countries relating to these applications including the right to apply for patent rights in each foreign country and all rights to priority; or consents to and affirms the sale, assignment, and transfer to SOUTHAMPTON of all said SMITH INTELLECTUAL PROPERTY at least as of July 16, 2002 pursuant to the above-referenced employment agreement.

SOUTHAMPTON does hereby sell, assign, and transfer to HARVARD, nunc pro tunc July 17, 2002, its entire, right, title, and interest for the United States and all foreign countries in and to SMITH INTELLECTUAL PROPERTY, and in and to said applications and any and all priority applications to which said applications relate, and in and to all divisional, continuing, substitute, renewal, reissue and all other applications for Letters Patent which have been or shall be filed in the United States and all foreign countries relating to these applications, and in and to all original and reissued patents which have been or shall be issued in the United States and all

755441.1

foreign countries relating to these applications including the right to apply for patent rights in each foreign country and all rights to priority.

SMITH and SOUTHAMPTON agree that HARVARD may apply for and receive Letters Patent for all of said inventions defining SMITH INTELLECTUAL PROPERTY in its own name and, when requested, without charge to but at the expense of HARVARD, agree to carry out in good faith the intent and purpose of this assignment, by executing all divisional, continuing, substitute, renewal, reissue, and all other patent applications on any and all said inventions, by executing all rightful oaths, assignments, powers of attorney and other papers, by communicating to HARVARD all facts known to either of them relating to said inventions and the history thereof, and generally by doing everything possible which HARVARD shall consider desirable for aiding in securing and maintaining proper patent protection for said inventions and for vesting title to said inventions and all applications for patents and all patents on said inventions, in HARVARD.

SMITH and SOUTHAMPTON hereby request the Honorable Commissioner of Patents and Trademarks to issue said Letters Patent to HARVARD.

SMITH and SOUTHAMPTON covenant with HARVARD that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by them and that full right to convey the same as herein expressed is possessed by them.

UNIVERSITY OF SOUTHAMPTON

Dr. Peter Hooper Deputy Director, Centre for Enterprise and Innovation	Date	
WITNESS:		
Name	Date	

755441.1

DAVID C. SMITH	
Dr. David C. Smith	8h Jan 034/15. Date
WITNESS: / /	
Name	S/1/04
PRESIDENT AND FELLOWS OF HARVARD CO	1/22/04
Dr. Joyce Brinton Director of the Office for Technology	Date
ad Trademark Licensing	
Harvard University	
STATE OF <u>MASSACHUSETTS</u> : COUNTY OF <u>MIDDLESEX</u> :	
Subscribed and sworn to before me this 22 ND	day of JANUARY 2004
SEAL MAN A MAN AND MAN	·
JURINITY AUNKINS Notary Public Commonwealth of Massachusetts My Commission Expires February 3, 2006	

H0498.70187US00

NUNC PRO TUNC ASSIGNMENT

This Agreement is made by and between the University of Southampton, of University Road, Highfield, Southampton SO17 1BJ, a legal body organized under the laws of England ("SOUTHAMPTON"); David C. Smith, of 1, Mullion Court, Franklin Street, Reading, RG1 7YF, United Kingdom ("SMITH"); and the President and Fellows of Harvard College, a nonprofit Massachusetts educational corporation having offices at 17 Quincy Street, Cambridge, Massachusetts 02138 ("HARVARD").

This Agreement concerns the entire right, title, and interest in and to any invention or inventions made by SMITH disclosed and/or claimed in any of the following patent applications, hereinafter referred to as "SMITH INTELLECTUAL PROPERTY":

U.S. patent application serial no. 10/152,490, filed May 20, 2002, international patent application serial no. PCT/US02/16133, filed May 20, 2002, and U.S. patent application serial no. 10/196,337, filed July 16, 2002, each entitled "Nanoscale Wires and Related Devices", and related cases worldwide.

WHEREAS, on October 11, 2002 SMITH executed a document purporting to sell, assign, and transfer to the President and Fellows of Harvard College, his entire right, title and interest in SMITH INTELLECTUAL PROPERTY, specifically noting U.S. patent application serial no. 10/196,337; and

WHEREAS, both SMITH and SOUTHAMPTON agree that pursuant to an employment agreement between SMITH and SOUTHAMPTON effective at a period of time during which SMITH contributed inventively to any and all SMITH INTELLECTUAL PROPERTY, any and all of said SMITH INTELLECTUAL PROPERTY was owned by SOUTHAMPTON; and

WHEREAS, SOUTHAMPTON entered into an agreement with HARVARD dated January 1, 2003 purporting to assign and convey to HARVARD absolutely all right, title, and interest in and to said SMITH INTELLECTUAL PROPERTY, specifically noting U.S. patent

application serial no. 10/152,490, and corresponding international patent application serial no. PCT/US02/16133; and

WHEREAS, SMITH, SOUTHAMPTON and HARVARD all agree that all right, title, and interest in and to SMITH INTELLECTUAL PROPERTY properly resides in HARVARD, and wish to confirm ownership of all right, title, and interest in and to SMITH INTELLECTUAL PROPERTY in HARVARD or to transfer SMITH INTELLECTUAL PROPERTY to HARVARD.

NOW, THEREFORE, in consideration of \$1.00 and other good and valuable consideration, the receipt of which is hereby acknowledged;

SMITH does hereby sell, assign, and transfer to SOUTHAMPTON, *nunc pro tunc* July 16, 2002, his entire, right, title, and interest for the United States and all foreign countries, in and to SMITH INTELLECTUAL PROPERTY, and in and to said applications and any and all priority applications to which said applications relate, and in and to all divisional, continuing, substitute, renewal, reissue and all other applications for Letters Patent which have been or shall be filed in the United States and all foreign countries relating to these applications, and in and to all original and reissued patents which have been or shall be issued in the United States and all foreign countries relating to these applications including the right to apply for patent rights in each foreign country and all rights to priority; or consents to and affirms the sale, assignment, and transfer to SOUTHAMPTON of all said SMITH INTELLECTUAL PROPERTY at least as of July 16, 2002 pursuant to the above-referenced employment agreement.

SOUTHAMPTON does hereby sell, assign, and transfer to HARVARD, nunc pro tunc July 17, 2002, its entire, right, title, and interest for the United States and all foreign countries in and to SMITH INTELLECTUAL PROPERTY, and in and to said applications and any and all priority applications to which said applications relate, and in and to all divisional, continuing, substitute, renewal, reissue and all other applications for Letters Patent which have been or shall be filed in the United States and all foreign countries relating to these applications, and in and to all original and reissued patents which have been or shall be issued in the United States and all

755441.1

foreign countries relating to these applications including the right to apply for patent rights in each foreign country and all rights to priority.

SMITH and SOUTHAMPTON agree that HARVARD may apply for and receive Letters Patent for all of said inventions defining SMITH INTELLECTUAL PROPERTY in its own name and, when requested, without charge to but at the expense of HARVARD, agree to carry out in good faith the intent and purpose of this assignment, by executing all divisional, continuing, substitute, renewal, reissue, and all other patent applications on any and all said inventions, by executing all rightful oaths, assignments, powers of attorney and other papers, by communicating to HARVARD all facts known to either of them relating to said inventions and the history thereof, and generally by doing everything possible which HARVARD shall consider desirable for aiding in securing and maintaining proper patent protection for said inventions and for vesting title to said inventions and all applications for patents and all patents on said inventions, in HARVARD.

SMITH and SOUTHAMPTON hereby request the Honorable Commissioner of Patents and Trademarks to issue said Letters Patent to HARVARD.

SMITH and SOUTHAMPTON covenant with HARVARD that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by them and that full right to convey the same as herein expressed is possessed by them.

UNIVERSITY OF SOUTHAMPTON

Dr.	Peter	per	
-	. ***		

Deputy Director, Centre for Enterprise and Innovation

WITNESS:

I MINA LEENE

It James

Date

755441.1

-4-

DAVID C. SMITH		
Dr. David C. Smith WITNESS:	Date	
Name	Date	
PRESIDENT AND FELLOWS OF HARVA	RD COLLEGE	
Dr. Joyce Brinton Director of the Office for Technology ad Trademark Licensing Harvard University	Date	
STATE OF: COUNTY OF:		
Subscribed and sworn to before me this SEAL Notary Public My Commission Expires	day of	 ,

755441.1



0

Date:

March 31, 2004

Number of pages (including cover): Ten

To:

Assignment Branch, U.S. Patent and Trademark Office

Fax No.:

703.306.5995

Serial No.: 10/196,337

Title:

NANOSCALE WIRES AND RELATED DEVICES

From:

RECORDED: 03/31/2004

Timothy J. Oyer, Ph.D.

Direct dial: 617.646.8251

Our File #: H0498,70187US00

CERTIFICATE OF FACSIMILE TRANSMISSION 37 C.F.R. §1.8(a)

The undersigned hereby certifies that this document is being transmitted via facsimile to the attention of Assignment Branch, FAX number 703.306.5995, at the United States Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450, in accordance with 37 C.F.R. §1.6(d), on the day of March, 2004.

ORIGINAL DOCUMENTS WILL NOT BE MAILED.

MESSAGE:

Transmitted herewith is a Nunc Pro Tunc Assignment for Recordation.

This transmission contains confidential information intended for use only by the above-named recipient. Reading, discussing, distributing, or copying this message by anyone other than the named recipient, or his or her employees or agents, is strictly prohibited. If you have received this fax in error, please notify us immediately by telephone (collect), and return the original message to us at the address below via the U.S. Postal Service.

IF YOU DID NOT RECEIVE ALL OF THE PAGES OF THIS TRANSMISSION, OR IF ANY OF THE PAGES ARE ILLEGIBLE, PLEASE CALL 617.720.3500 IMMEDIATELY.

Wolf Greenfield Fax Number: 617.720.2441

Wolf, Greenfield & Sacks, P.C. | 600 Atlantic Avenue | Boston, Massachusetts 02210-2206 617.720.3500 | fax 617.720.2441 | www.wolfgreenfield.com

PATENTS TRADEMARKS COPYRIGHTS **TECHNOLOGY TRANSFERS** LITIGATION

PATENT

REEL: 014481 FRAME: 0616