

03-22-2004

Docket No.: NA-1219 CIP 2

FORM PTO-1595 (Modified)

(Rev. 6-93)

OMB No. 0651-0011 (exp. 4/94)

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P08/REV02

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U.S. DEPARTMENT OF COMMERCE

Patent and Trademark Office

Tab settings →

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

University of Massachusetts Lowell

Ferdinando Bruno

Lynne Samuelson

Michael Sennett

Additional names(s) of conveying party(ies) ☐ Yes ☒ No

3. Nature of conveyance:

☒ Assignment☐ Merger☐ Security Agreement☐ Change of Name☐ Other _____

Execution Date: _____

2. Name and address of receiving party(ies):

Name: USA as represented by the Secretary of the Army

Internal Address: _____

Street Address: _____

City: Washington State: DC ZIP: 20310Additional name(s) & address(es) attached? ☐ Yes ☒ No

4. Application number(s) or registration numbers(s):

If this document is being filed together with a new application, the execution date of the application is:

February 6, 2004

A. Patent Application No.(s)

10/775579

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: U.S. Army Soldier Systems CenterInternal Address: Attn: Vincent Ranucci, Legal OfficeStreet Address: 15 Kansas StreetCity: NatickState: MAZIP: 01760

6. Total number of applications and patents involved:

17. Total fee (37 CFR 3.41):.....\$ 40.00☐ Enclosed - Any excess or insufficiency should be credited or debited to deposit account☒ Authorized to be charged to deposit account

8. Deposit account number:

19-2201

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.

Vincent J. Ranucci

Name of Person Signing

Signature

Date

Total number of pages including cover sheet, attachments, and document: 1

PATENT

REEL: 015096 FRAME: 0535

**Assignment of Rights, Title and Interest in Invention
(Multiple inventors; single assignee)**

Docket No.
NA-1219 CIP 2

This is an Assignment of the following rights, title and interest: (check all that apply):

☒ *United States of America rights, title and interest in the invention*

☐ *Foreign rights, title and interest in the invention*

☒ *United States Patent Application Serial No.* _____

Date of Execution: 11-20-02 *Date of Filing:* 2-9-04

☐ *United States Provisional Patent Application Serial No.* _____

☐ *United States Patent No(s).* _____

☐ *International (PCT) Patent Application Serial No.* _____

☐ *Other (specify)* _____

Title of the Invention

Synthesis of Polyaniline on Multi-Walled Carbon Nanotubes

Inventors (assignors)

<i>Name</i>	<i>Address</i>
Ferdinando F. Bruno	16 Samos Lane, Andover, MA 01810
Lynne A. Samuelson	21 McDonough Drive, Marlboro, MA 01752
Michael Sennett	41 Stonebrook Road, Sudbury, MA 01776

Assignee

<i>Name</i>	<i>Address</i>
USA as represented by the Secretary of the Army	Washington, DC

Assignment of Rights, Title and Interest in Invention
(Multiple inventors; single assignee)

Docket No.
NA-1219 CIP 2

Whereas, we, the above-identified Inventors, have invented certain new and useful improvements in the Invention identified above and described in the above-identified patent application(s) and/or patent(s) (hereinafter referred to as "Invention");

And, whereas we desire to assign our above-identified rights, title and interest in the Invention to the above-identified Assignee;

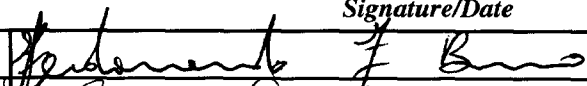

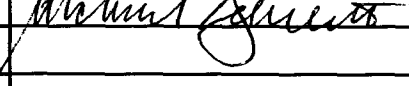
Now, this indenture witnesseth, that for good and valuable consideration, the receipt whereof is hereby acknowledged;

We hereby assign, sell and transfer our above-identified rights, title and interest in said Invention, said application(s) as identified above, including any divisions, continuations, and continuations-in-part thereof, and in and to any and all Letters Patent of the United States, and countries foreign thereto, which may be granted or have granted for said Invention, and in and to any and all reissues and reexaminations thereof, and in and to any and all priority rights, Convention rights, and other benefits accruing or to accrue to us with respect to the filing of applications for patents or securing of patents in the United States and countries foreign thereto, unto said Assignee;

And we hereby authorize and request the Commissioner of Patents and Trademarks to issue any United States Letters Patent which may issue for said Invention to said Assignee, as assignee of the whole right, title and interest thereto;

And we further agree to sign and execute all necessary and lawful future documents, including applications for foreign patents, for filing divisions, continuations and continuations-in-part of said application for patent, and/or, for obtaining any reissue or reissues of any Letters Patent which may be granted for my aforesaid Invention, as the Assignee or its Designee(s) may from time to time require and prepare at its own expense.

Inventors' Signatures (if Notarization is desired, do not sign here and proceed to next page)

Name	Signature/Date
Ferdinando F. Bruno	 11/20/2002
Lynne A. Samuelson	 Nov. 20 2002
Michael Sennett	 1/2/03

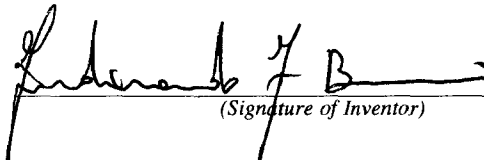
**Assignment of Rights, Title and Interest in Invention
(Multiple inventors; single assignee)**

Docket No.
NA-1219 CIP 2

Notarization

(Although notarization is not necessary, it will be considered prima facie evidence of execution pursuant to 35 U.S.C. 261.)

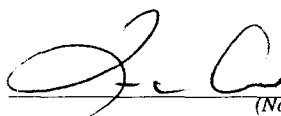
Executed this 20 day of Nov, in the year 2002
at Natick, Massachusetts.


(Signature of Inventor)

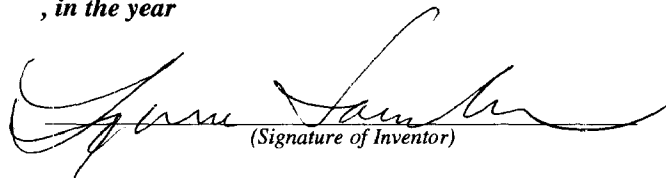
State of Massachusetts

County of Middlesex

Before me personally appeared Ferdinando F. Bruno
who acknowledged the foregoing instrument to be a free act and deed and also represented that he or she is authorized to
execute the same this 20 day of Nov, in the year 2002


(Notary Public)

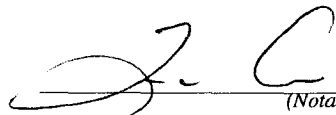
Executed this 20th day of November, in the year
at Natick, Massachusetts


(Signature of Inventor)

State of Massachusetts

County of Middlesex

Before me personally appeared Lynne A. Samuelson
who acknowledged the foregoing instrument to be a free act and deed and also represented that he or she is authorized to
execute the same this 20 day of Nov, in the year 2002


(Notary Public)

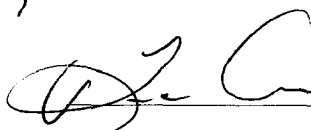
Executed this 2nd day of January, in the year 2002 2003
at Natick, Massachusetts.


(Signature of Inventor)

State of Massachusetts

County of Middlesex

Before me personally appeared Michael Sennett
who acknowledged the foregoing instrument to be a free act and deed and also represented that he or she is authorized to
execute the same this 2nd day of January, in the year 2002 2003


(Notary Public)

ASSIGNMENT

FROM CONTRACTOR-EMPLOYEE TO CONTRACTOR
AND
FROM CONTRACTOR TO GOVERNMENT
(AMC-R 825-2)

APPLICATION FOR: Synthesis of Polyaniline on Multi-Walled Carbon Nanotubes
Short Title of Invention

INVENTOR(S): _____

* SERIAL NO: _____ * FILING DATE: _____ DATE OATH EXECUTED: _____

CONTRACTOR: University of Massachusetts Lowell

CONTRACT NO: DAAD-01-C-0011

SUBCONTRACTOR: - - -

* Data not known at execution time may be added later for better identification.

WHEREAS, under the terms of the above-identified Government contract with the United States Government, the Contractor ** agreed, inter alia, to grant to the Government certain rights under inventions and/or discoveries conceived or first actually reduced to practice in the performance of said contract; and

WHEREAS, the above-identified patent application discloses invention(s) within the purview of said rights agreed to be granted by the Contractor to the Government; and

WHEREAS, the Government desires that the assignment rights provided for by said contract in and to said invention(s) be confirmed; and

WHEREAS, under the employment contract, agreement or arrangement the Contractor-employer is entitled to an assignment in and to certain inventions made by the inventor(s) as part of his (their) duties as employee(s) of the Contractor; and

WHEREAS, the above-identified invention(s) was/were made in the performance of the above-identified contract and under such circumstances as to entitle the Government to an assignment of the entire right, title and interest in and to said invention(s) and any and all applications for Letters Patent thereon and in and to any and all Letters Patent granted on said application, subject only to a nonexclusive royalty free license to Contractor, said license to be non-transferable except to the successor of that part of the Contractor's business to which said license is appurtenant.

NOW, THEREFORE, be it known that for and in consideration of these premises and for other good and sufficient consideration, the receipt of which is hereby acknowledged, I (we), the inventor(s), do sell, assign, and transfer to the Contractor-employer the entire right, title and interest in and to said invention(s) and patent application and in and to all Letters Patent wherever they may be granted thereon, as well as divisions, continuations, reissues, and extensions of said application and Letters Patent, the same to be held and enjoyed by the said Contractor-employer to the full end of the term or terms for which Letters Patent are or may be granted, as fully and entirely as the same would have been held or enjoyed by me (us) had this assignment not been made.

**(The terms "Contract" and "Contractor" shall include subcontract and subcontractor, if applicable, wherever they occur.)

PRIME CONTRACTOR AND NUMBER: _____

SUBCONTRACTOR: _____

APPLICATION FOR: Synthesis of Polyaniline on Multi-Walled Carbon Nanotubes

INVENTOR(S): _____

SERIAL NO: _____ FILING DATE: _____

SIGNATURE OF INVENTOR

Ramaswamy
(First Name)

(Middle Initial)

(Last Name)

ADDRESS: 1000 Skyline Drive, Apt. #3, Dracut, Middlesex County, Massachusetts
(Locality) (County) (State)

DATE: September 17, 2003

Ramaswamy Nagarajan

STATE OF Massachusetts

(Inventor's typed name)

COUNTY OF Middlesex

SS.

On the above date Ramaswamy Nagarajan, known to me to be the individual described in and who executed the foregoing instrument, duly appeared before me and acknowledged to me that he executed the same as his own free act and deed.

(SEAL)

My commission expires on

June 7, 2007.

Signature of Notary Lila A. Lorrey

SIGNATURE OF INVENTOR

Jayant Kumar
(First Name)

(Middle Initial)

(Last Name)

ADDRESS: 53 Griffin Road, Westford, Middlesex County, Massachusetts
(Locality) (County) (State)

DATE: September 17, 2003

Jayant Kumar
(Inventor's typed name)

STATE OF Massachusetts

COUNTY OF Middlesex

SS.

On the above date Jayant Kumar, known to me to be the individual described in and who executed the foregoing instrument, duly appeared before me and acknowledged to me that he executed the same as his own free act and deed.

(SEAL)

My commission expires on

June 7, 2007.

Signature of Notary Lila A. Lorrey

ASSIGNMENT (Continued)

University of Massachusetts Lowell
Contract No. DAAD-01-C-0011

PRIME CONTRACTOR AND NUMBER: SUBCONTRACTOR: APPLICATION FOR: Synthesis of Polyaniline on Multi-Walled Carbon NanotubesINVENTOR(S): SERIAL NO: FILING DATE:

CONTRACTOR'S ASSIGNMENT

The above-identified Contractor for and in consideration of these premises and for other good and sufficient consideration, the receipt of which is hereby acknowledged, by these presents does sell, assign, and transfer to the United States Government, as represented by the Secretary of the Army and his successors in office:

ONE: The entire right, title and interest throughout the United States, its Territories, Possessions, and Puerto Rico, in and to said invention(s) and patent application and in and to any and all Letters Patent granted thereon, as well as divisions, continuations, reissues, and extensions of said application and Letters Patent, the same to be held and enjoyed by the said Government of the United States, to the full end of the term or terms for which Letters Patent are or may be granted, as fully and entirely as the same would have been held or enjoyed by the Contractor had this assignment not been made, subject only to the license, as above recited, which license extends to Contractor and to existing and future associated and affiliated companies, if any, within the corporate structure of which Contractor is a part, and which license is hereby reserved.

TWO: The entire right, title and interest, in all foreign countries, in and to said invention(s) and in and to all foreign Letters Patent, subject only to the license, as above recited, which license extends to Contractor and to existing and future associated and affiliated companies, if any, within the corporate structure of which Contractor is a part, and which license is hereby reserved.

NOTE: The Contractor may delete this paragraph TWO by crossing it out and initialing in the margin. If paragraph TWO is deleted, the following paragraph then becomes applicable and forms part of this instrument.

Contractor further grants, conveys, and confirms to the Government of the United States, as represented by the Secretary of Army and his successors in office, in consideration of the premises and other good and sufficient consideration, an irrevocable, nonexclusive, and royalty-free license to practice, and cause to be practiced by and for the Government, in all foreign countries, in the manufacture, use and disposition according to law, any article, material, or method embodied in any and all of the inventions (within the scope of the said certain rights) disclosed in the above-identified patent application, as well as in any and all Letters Patent, for the full term or terms thereof, which may eventuate from or be based thereon, the said license (1) being non-transferable, except that the Government has the right to grant sub-licenses to any foreign government or international organization specifically for use in programs established by International Agreements for research, development, or production of weapons or equipment for mutual defense, and (ii) including the practice of the licensed inventions in the manufacture, use, and disposition of any article or material, in the use of any method, or in the performance of any service acquired by or for the Government or with funds derived through the Military Assistance Program of the Government or otherwise through the Government.

ASSIGNMENT (Continued)

PRIME CONTRACTOR AND NUMBER: University of Massachusetts Lowell
 SUBCONTRACTOR: Contract No. DAAD-01-C-0011
 APPLICATION FOR: Synthesis of Polyaniline on Multi-Walled Carbon Nanotubes
 INVENTOR(S): _____
 SERIAL NO: _____ FILING DATE: _____

Signed for Contractor on 15 9 03
 At Boston Suffolk MA
 LOCALITY COUNTY STATE

Signature of Officer [Signature]
William Rosenberg
 TYPED NAME

I certify that I am the Secretary of the above-identified Corporation; that the officer who signed this instrument on behalf of the Corporation was then Secretary of the Corporation, acting by authority of its governing body and within the scope of its corporate powers.

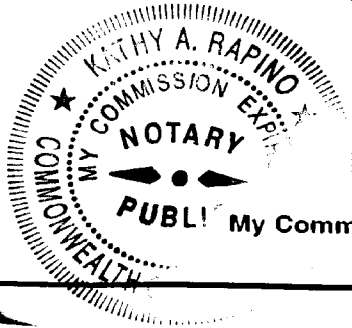
Signed on: 15 9 03 Signature of Secretary Barbara J. DeVico
 DAY MONTH YEAR
Barbara DeVico
 TYPED NAME

State of Massachusetts)
 County of Suffolk) ss:

On 9 15 03 appeared before me William Rosenberg
 DAY MONTH YEAR
 and Barbara DeVico to me well known, and known to be the
Director, CVIP, and Secretary of University of
 (TITLE) (TITLE)
Massachusetts, a corporation of Massachusetts, and affixed their names to
 (STATE)

the foregoing instrument in my presence, and acknowledged the same to be their and said Corporation's free act and deed.

(SEAL)



Kathy Rapino
 NOTARY PUBLIC
9/10/04
 My Commission Expires