PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:			NEW ASSIGNMENT			
NATURE OF CONVEYANCE:			ASSIGNMENT			
CONVEYING PARTY DATA						
			lame	Execution Date		
Charles M. Lieber				08/26/2008		
Ying Fang				08/31/2008		
Fernando Patolsky				09/02/2008		
RECEIVING PARTY DATA						
Name: President and Fellov			ws of Harvard College			
Street Address:	17 Quincy Street					
City:	Cambridge					
State/Country:	MASSACHUSETTS					
Postal Code:	02138					
PROPERTY NUMBERS Total: 1						
Property Type			Number			
Application Number: 1		12308	Number 2308207			
CORRESPONDENCE DATA Fax Number: (617)646-8646						
Four Number (647)646.9646						
Correspondence will be sent via US Mail when the fax attempt is unsuccessful.Phone:6176468251						
Email: patents_TimO@wolfgreenfield.com						
Correspondent Name: Timothy J. Oyer						
Address Line 1: 600 Atlantic Avenue						
Address Line 4: Boston, MASSACHUSETTS 02210						
ATTORNEY DOCKET NUMBER:			H0498.70272US01			
NAME OF SUBMITTER:			Timothy J. Oyer			
Total Attachments: 12 source=H0498.70272US01ASSGN#page1.tif source=H0498.70272US01ASSGN#page2.tif PATENT						

501475892

```
source=H0498.70272US01ASSGN#page3.tif
source=H0498.70272US01ASSGN#page4.tif
source=H0498.70272US01ASSGN#page5.tif
source=H0498.70272US01ASSGN#page6.tif
source=H0498.70272US01ASSGN#page7.tif
source=H0498.70272US01ASSGN#page8.tif
source=H0498.70272US01ASSGN#page1.tif
source=H0498.70272US01ASSGN#page10.tif
source=H0498.70272US01ASSGN#page11.tif
source=H0498.70272US01ASSGN#page12.tif
```

ASSIGNMENT

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

Charles M. Lieber, Ying Fang, Fernando Patolsky

(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:

Nanosensors and Related Technologies

described in international Patent Application No. PCT/US2007/013700 filed June 12, 2007 and U.S. Application No. 60/812,884 filed June 12, 2006 from which it claims priority; 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,

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: Jugust 36, 2008

Charles M. Lieber

State of: <u>Massachusetts</u> County of: <u>Massachusetts</u>

On this <u>26</u> day of <u>AUC-UST</u>, 2008, before me, the undersigned notary public, personally appeared <u>Charles Gaber</u> (name of document signer), proved to me through satisfactory evidence of identification, which were

MA driver's license, to be the person whose name is signed on the preceding or attached document in my presence.

2

[SEAL]

otary Public

JOHN L. RANDAZZO NOTARY PUBLIC My Commission Expires And 2010

Date: _____

Ying Fang

WITNESSED BY:

Date:_____

. .

WITNESSED BY:

Date: _____

•

.

 $Mdi \ge 0$

Pants of Wratta

.

. Name and the second second

251日102 PF 2010世

NARD SE

3

.

PATENT REEL: 026000 FRAME: 0947

.

Date: _____

Fernando Patolsky

WITNESSED BY:

Date: _____

Manage With C

S altre State

WITNESSED BY:

Date: _____

 $\nabla G [22]$

ASSIGNMENT

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

Charles M. Lieber, Ying Fang, Fernando Patolsky

(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:

Nanosensors and Related Technologies

described in international Patent Application No. PCT/US2007/013700 filed June 12, 2007 and U.S. Application No. 60/812,884 filed June 12, 2006 from which it claims priority; 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,

1

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: _____

Charles M. Lieber

State of: <u>Massachusetts</u> County of: _____

On this _____ day of ______, 2008, before me, the undersigned notary public, personally appeared ______ (name of document signer), 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: 08/31/2008

WITNESSED BY:

Date: 08/31/2008

nound

Ying Fang

Name of Witness

Address 11 Beilitian, Zhong quan cun,

Beijing P.R. China. 100190

WITNESSED BY:

Date: 18/3/ 2008

Yuan Bo

Name of Witness

Address

Date:	
-------	--

Fernando Patolsky

WITNESSED BY:

Date: _____

Name of Witness

.

.....

Address

WITNESSED BY:

Date: _____

.....

Name of Witness

Address

4

ASSIGNMENT

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

Charles M. Lieber, Ying Fang, Fernando Patolsky

(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:

Nanosensors and Related Technologies

described in international Patent Application No. PCT/US2007/013700 filed June 12, 2007 and U.S. Application No. 60/812,884 filed June 12, 2006 from which it claims priority; 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 ald said Assignee,

1

#236 Fage 01/04

81236409293

30/08/5011 14:50 IVI 20000*CHEMISIKA PATENT REEL: 026000 FRAME: 0953

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:

Charles M. Lieber

State of: <u>Massachusetts</u> County of: _____

On this _____ day of ______, 2008, before me, the undersigned notary public, personally appeared ______ (name of document signer), 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

¥236 ₽846 03/04

61236409293

 XNLSINGHO:
 CHOOL:
 CHEMISTRY

 PATENT
 PATENT

 REEL:
 026000 FRAME:
 0954

Date: _

Ying Fang

WITNESSED BY:

Date: ____

Name of Witness

XIII

WITNESSED BY:

Date: _

Name at Marness

Athers

3

₽0/₽0 ə5ed 1236

30/08/5071 14:50 TAU SCHOOL*CHEMISTRY 97236409293 PATENT REEL: 026000 FRAME: 0955

Date: $\frac{9/2/08}{2}$

WI'INESSED BY:

Mleha/ Date: _

StolSHY Fernando Patolsky Fernando P

MICHAL LAHAY 38/22 HANASI HARISHON ST. <u>REHOVOT 76302</u>

ISRAEL

WITNESSED BY:

Date: _

Name of Witness

Address

#236 Fage 02/04

97236409293

4

30/08/5011 14:52 TAU SCHOOF.CHEWISIKA PATENT REEL: 026000 FRAME: 0956

RECORDED: 03/23/2011