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FORM PTO-1595 1-31-9.1 Docket No. 249/033	APR 2
To the Honorable	or prissic
1. Name of conve	
Jing Cheng, Li	e Vu, Mic
Diver, James I	≥. ()'Conn
Willoughby	

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1-31	W W W	U.S. DEPARTMENT OF COMMERCE Patent and Trademark Office		
Doc	kel No. 249/033 2 10133	3702 decimal documents or copy thereof.		
To 1.	the Honorable Control issioners Patents and Trace Name of conveying party(les): Jing Cheng, Lie \Vu, Michael J. Heller. Ed Sheldon, Jonathan Diver, James P. ()'Connell, Dan Smolko, Shila Jalali, David Willoughby Additional name(s) of conveying party(les) attached? Yes No Nature of cor veyance: Assignment Merger Security Agreement Change of Name	2. Name and address of receiving party: Name: Nanogen Internal Address: State: Zip: Street Address: 10398 Pacific Center Court City: San Diego State: CA Zip: 92121		
	The state of the s	Additional name(s) & address(es) attached?		
4. A.	If this document is being filed together with a new application, the execution date of the application is:			
		ached? 🔲 Yes 🔯 No		
Name and ac dress of party to whom correspondence concerning document should be mailed:		6. Total number of applications and patents involved: 1		
	Name: David B. Murphy. Esq.	7. Total fee (37 CFR 3.41): \$ 40.00 ☑ Enclosed		
	Internal Address: LYON & LYON LLP 633 West Fifth Street, Suite 4700 Los Angeles, CA 90071-2066	Charge this Deposit Account if any additional fee is required		
		8. Deposit Account Number: 12-2475		
	DO NOT US	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. Date: April 17, 2000 David Murphy, Reg No. 31,125 Total number of pages including cover sheet:				
	D No. 0054 0014 Java 4/04)			
OMB No. 0651-0011 (exp. 4/94) Do not detach this portion Mail documents to be recorded with required cover sheet information to:				
Commissioner of Patents and Trademarks				
4.	Washingto	signments n, D.C. 20231		
Public burden reporting for this sample cover sheet is estimated to average about 30 minutes per document to be recorded, including time for reviewing the document and gathering the data needed, and completing and reviewing the sample cover sheet. Send comments regarding this burden estimate to the U.S. Patent and Trademark Office, Office of Information Systems, PK2-1000C, Washington, D.C. 20231, and to the Office of Management and Budget, Paperwork Reduction Project, (0651-0011), Washington, D.C. 20503				

OC-50522.1

ASSIGNMENT

For valuable consideration, we, Jing Cheng of Beijng, China and a citizen of the China; Lei Wu of San Diego, California and a citizen of China; Michael J. Heller of Encinitas, Calfornia and a citizen of the U.S.A.; Ed Sheldon of San Diego, California and a citizen of the U.S.A.; Jonathan Diver of San Diego, California and a citizen of the U.S.A.; James P. O'Connell of Solana Beach, California and a citizen of the U.S.A.; Dan Smolko of Jamul, California a citizen of the U.S.A.; Shila Jalali of San Diego, California and a citizen of the U.S.A.; and David Willoughby of San Diego, California and a citizen of the U.S.A. (hereinafter referred to as "Assignors') hereby assign to NANOGEN, a corporation organized and existing under and by virtue of the laws of the State of Delaware and having its principal place of business at 10398 Pacific Center Court, San Diego, California 92121, and its successors and assigns (collectively hereinafter called "the Assignee"), the entire right, title and interest throughout the world in the INTEGRATED PORTABLE BIOLOGICAL DETECTION SYSTEM, this assignment including said application, any and all United States and foreign patents granted for any of said inventions or improvements, including all divisions, continuations, reissues, continuations-in-part and extensions thereof, and the right to claim priority based on the filing date of said application and based on the filing date of any provisional application of which said application claims the benefit under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other treaties of like purposes; and we authorize the Assignee to apply in all countries in our names or in its own name for patents and like rights of exclusion and for inventor's certificates for said inventions and improvements; and we agree for ourselves and our heirs, legal representatives and assigns, without further compensation, upon request to perform such lawful acts, to promptly provide Assignee with all pertinent facts and documents relating to said invention or application as may be known and accessible to us, to testify in any interference or litigation related to said invention or application and to sign such further applications, assignments, Preliminary Statements and other lawful documents as the Assignee may reasonably request to effectuate fully this Assignment.

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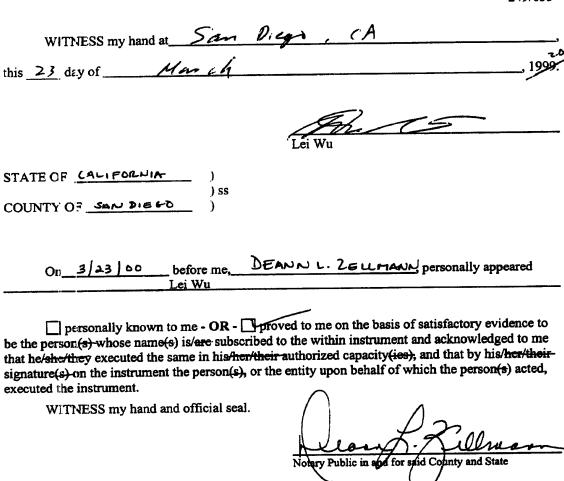
applications, assignments, Preliminary Statements and other lawful documents as the Assignee may reasonably request to effectuate fully this Assignment.

The Assignors hereby covenant that no assignment, sale, agreement, or encumbrance has been or will be made or entered into which would conflict with this Agreement.

WITNESS my		eijing.
this 2 day of	April	
		Jing Cheng
STATE OF		
COUNTY OF) ss)	
Cn	before me, Jing Cheng	, personally appeared
he the person(s) whose that he/she/they execu	te name(s) is/are subscribe to the same in his/her/the strument the person(s), or t	roved to me on the basis of satisfactory evidence to d to the within instrument and acknowledged to me eir authorized capacity(ies), and that by his/her/their the entity upon behalf of which the person(s) acted,
WITNESS my	hand and official seal.	
		Notary Public in and for said County and State

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WITNESS my hand at ____ San Bigo, Coleforne this 17th day of 111 cus ch 1999. Ed - Shelde.

STATE OF CALIFORNIA COUNTY OF SAN DIEGO

> before me, DEANN 1 ZELLMANN, personally appeared On 5/17/00 Ed Sheldon

personally known to me - OR - proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal.

DEANN L. ZELLMANN Oc. mmission # 1169850 vor ary Public - California Sar Diego County My Cirrim Expires Jan 16, 2002

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	Patent 249/033
WITNESS my hand at	Piego, CA
this 16 day of Maric L	1999.
	Muhael J. Heller
STATE OF CALIFORNIA	
COUNTY OF JAN DIEGO)	
Or. 3 15 CC before me, DE AN Michael J. Heller	NI ZELLMANN, personally appeared
personally known to me - OR - provide the person(s) whose name(s) is/are subscribed to that he/she/they executed the same in his/her/their a signature(s) on the instrument the person(s), or the executed the instrument. WITNESS my hand and official seal.	entity upon behalf of which the person(s) acted,
DEAN LI FILMANN Commission # 1169850 Turny Fluoric - Coffunio - E 101 Tegs County My Currin Expirity and 16 2002	Notary Public in and for said County and State

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his day of MA		m	1999.
		Jonathan Diver	
STATE OF)) ss		
COUNTY OF)		
	hefore me	, personally appeared	
On		, personally appeared	
personally be the person(s) whose that he/she/they execute signature(s) on the insteaded the instrument	Innathan Diver known to me - OR - properties name(s) is/are subscribed ted the same in his/her/theirument the person(s), or the	oved to me on the basis of satisfactory evidence to the within instrument and acknowledged to ar authorized capacity(ies), and that by his/her/ti the entity upon behalf of which the person(s) act	to me

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2000

WITNESS my hand at	Diryo California	249
this 16 day of March	0 0	<u> </u>
	James P. O Consell	_
	James P. O'Connell	

STATE OF <u>CALIFCENIA</u>)) ss COUNTY OF <u>SAN DIEGU</u>)

On 3111 CC before me, DEANN L ZEUMANN personally appeared

James P. O'Connell

personally known to me - OR - proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal.

DEANN L. ZELLMANN
Commission # 1169850
Norary Public - California
San Diego County
My Comm. Expires Jan 16, 2002

Sotary Public in and for said County and State

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Page 7 of 10

	249/033
WITNESS my hand at San	Diego, California
this cay of March	
thistay or	
	Same & Sand
	Dan Smolko
OTHER OF CALLCOLLAND.	

On = 101) CC before me, DEANN 1 ZELLMANN, personally appeared

personally known to me - OR - proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal.

Dan Smolko

DEANN L. ZELLMANN
Commission # 1169850
Norary Public - California
San Diega Caunty
My Comm. Expires Jan 16, 2002

COUNTY OF SAN DIE

Notary Public in and for said County and State

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1999 ZONE

San Diego WITNESS my hand at ___ this 164 day of_

STATE OF CALIFORNIA COUNTY OF SAL DIEGO

> before me, DEANN L ZELMANN, personally appeared On 3116 16 Shila Jalali

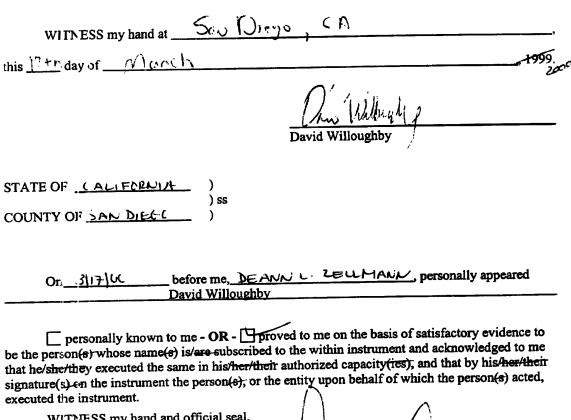
personally known to me - OR - proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal.

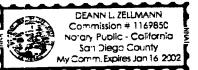
DEANN L. ZELLMANN Commission = 1169350 vorary Public - California San Diego County Committee and 6 2003

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WITNESS my hand and official seal.



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RECORDED: 04/20/2000

PATENT REEL: 010721 FRAME: 0255

ary Public in and for said County and State