05-0	2-2000		
Docket No. 244/008	RSHEET		
To the Honorable Commissioner of Patents 1013	341862 sinal documents or copy thereof.		
1. Name of conveying party(ies):	2. Name and address of receiving party:		
John J.Scott	Name: Nanogen		
Additional name(s) of conveying party(ies) attached?  ☐ Yes ☒ No			
3. Nature of conveyance:	Street Address 10398 Pacific Center Court		
Assignment	City: San Diego State: CA Zip: 92121		
Execution Date: January 7, 2000	Additional name(s) & address(es) attached?		
4. Application number(s) or patent number(s): 09/464,651 If this document is being filed together with a	l a new application, the execution date of the application is:		
A. Patent Application No(s).	B. Patent No(s).:		
Additional nur	mbers attached?  Yes No		
5. Name and address of party to whom correspondence concerning document should be mailed:	6. Total number of applications and patents involved: 1		
Name: Richard Warburg	7. Total fee (37 CFR 3.41): \$ 40.00 Enclosed		
Internal Address: Brobeck, Phleger & Harrison LLP 12390 El Camino Real San Diego, CA 92130-2081	Charge this Deposit Account if any additional fee is required		
	8. Deposit Account Number: 50-1273		
DO NO	OT USE THIS SPACE		
Douglas C. Murdock, Reg No. 37,549  Total number of pages including cover sheet: 6	information is true and correct and any attached copy is a true copy of the Date:		
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Mail documents to be recorded with required cover sheet info	ot detach this portion  ormation to: er of Patents and Trademarks		
11/2000 TIIM11 00000252 501273 09A&A&51\	er of Patents and Trademarks Box Assignments		
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Public burden reporting for this sample cover sheet is estimate	ed to average about 30 minutes per document to be recorded, including time for completing and reviewing the sample cover sheet. Send comments regarding this		

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

PATENT REEL: 010737 FRAME: 0588

## **ASSIGNMENT**

For valuable consideration, we, John R. Havens of San Diego, California and a citizen of the U.S.A.; Dan Smolko of Jamul, California a citizen of the U.S.A.; Jain Krotz of San Diego, California and a citizen of India and John J. Scott of Lafayette, Indiana 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 invention and improvements which are the subject of an application for United States Patent filed herewith, U.S. Serial No. to be assigned and related applications and patents, entitled MICROREACTION SYSTEMS AND METHODS FOR MOLDING AND GRAFTING HIGHLY UNIFORM POLYMER LAYERS ONTO ELECTRONIC MICROCHIP AND OTHER SUBSTRATES, 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.

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.

SD-140541.1

Page 1 of 5

PATENT REEL: 010737 FRAME: 0589 or will be made or entered into which would conflict with this Agreement. WITNESS my hand at SAN DIEGO CA this 15th day of DECEMBER STATE OF CALIFORNIA COUNTY OF SAN DIEGO On 12 15 99 before me, DEANN L. ZELLMANN, personally appeared John R. Havens 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. Notary Public in/and for said County and State DEANN L. ZELLMANN Commission # 1169850 No:ary Public - California San Diego County

The Assignors hereby covenant that no assignment, sale, agreement, or encumbrance has been

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My Comm. Expires Jan 16, 2002

WITNESS my hand	l at	Diego,	CA,
this $15^{+h}$ day of			, 1999.
		S)	Smallso
		Dan Smolko	
STATE OF <u>CALIFOR</u>	<u>NIA</u> ) ) ss		
COUNTY OF SAN DIE	<u> </u>		
On 12/15/99	before me, De Dan Smolko	ANN L. ZEL	AN personally appeared
be the person(s) whose nam that he <del>/she/they</del> executed th	is/are subscribed to same in his/her/the ent the person(s), or the land official seal.  Land official seal.  LIMANN  # 1169850 - California Seal.	to the within instraint authorized capacities the entity upon behinded.	basis of satisfactory evidence to rument and acknowledged to me city(ies), and that by his/her/their alf of which the person(s) acted,

SD-140541.1

WITNESS my hand at	SAN DIEGO	O, CAL	IFORNIA	
this 15 th day of December	<b>ኒ</b>			, 1999.
		Jain Krotz	l this	
STATE OF <u>CALIFORNIA</u> COUNTY OF <u>SAN DIEGO</u>		V		
On 나15/9년 befor Jain K		IN L. ZEI	LMANU person	nally appeared
personally known to me be the person(s) whose name(s) is/a that he/she/they executed the same is signature(s) on the instrument the presented the instrument.  WITNESS my hand and office the same is signature(s) on the instrument the presented the instrument.  WITNESS my hand and office the same is signature(s) on the instrument the presented the instrument.  DEANN L. ZELLMANN Commission # 11698.  Notary Public - Califor San Diego County My Comm. Expires Jan 16.	re-subscribed to n-his/her/their a erson(s), or the election cial seal.	the within insuthorized capentity upon be	strument and ack acity( <del>ies),</del> and tha	nowledged to me at by his/her/their person(s) acted,

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PATENT REEL: 010737 FRAME: 0592

WITNESS my hand at School of Managen	Patent nent Purdue University
his 7th day of	, <del>1999</del> .
	J. Scott
EXATE OF Indiana ) ss COUNTY OF IPPECAME )	
On <u>Junuary 7, 2000</u> before me, <u>Barbara</u> John J. Scott	4 Struch , personally appeared
personally known to me - OR - proved to be the person(s) whose name(s) is/are subscribed to the vehat he/she/they executed the same in his/her/their authorisignature(s) on the instrument the person(s), or the entity executed the instrument.	vithin instrument and acknowledged to me rized capacity(ies), and that by his/her/their
WITNESS my hand and official seal.	
Notai	Baltara Q. Struck  ry Public in and for said County and State  Commission expires 4/15/2008

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**RECORDED: 04/03/2000** 

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