

09-01-2000



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Name (line 1) <input type="text" value="O'Connell, James P."/>		
Name (line 2) <input type="text"/>		
Second Party		Execution Date Month Day Year <input type="text" value="072600"/>
Name (line 1) <input type="text" value="Wang, Ling"/>		
Name (line 2) <input type="text"/>		

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Name (line 2) <input type="text"/>			
Address (line 1) <input type="text" value="10398 Pacific Center Court"/>			
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Address (line 3) <input type="text" value="San Diego"/>	<input type="text" value="California"/>	<input type="text" value="92121"/>	
	City	State/Country	Zip Code

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09/01/2000 MTHA11 00000068 09291129
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CONTINUATION
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FORM PTO-1619C
Expires 06/30/99
OMB 0651-0027

U.S. Department of Commerce
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PATENT

Correspondent Name and Address

Area Code and Telephone Number (858) 720-2500

Name Douglas C. Murdock

Address (line 1) Brobeck, Phleger & Harrison LLP

Address (line 2) 12390 El Camino Real

Address (line 3) San Diego, California 92130

Address (line 4)

Pages Enter the total number of pages of the attached conveyance document including any attachments.

3

Application Number(s) or Patent Number(s)

Mark if additional numbers attached.

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Patent Application Number(s)

Patent Number(s)

09291129						

If this document is being filed together with a new Patent Application, enter the date the patent application was signed by the first named executing inventor.

Month Day Year

Patent Cooperation Treaty (PCT)

Enter PCT application number only if a U.S. Application Number has not been assigned

PCT		PCT		PCT	
PCT		PCT		PCT	

Number of Properties

Enter the total number of properties involved.

1

Fee Amount

Fee Amount for Properties Listed (37 CFR 3.41):

\$ 40.00

Method of Payment:
Deposit Account

Previously Enclosed

Deposit Account

(Enter for payment by deposit account or if additional fees can be charged to the account.)

Deposit Account Number:

50-1273

Authorization to charge additional fees:

Yes

No

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. Charges to deposit account are authorized, as indicated herein.

Douglas C. Murdock, Reg. No. 37,549

Name of Person Signing


Signature

8/8/00
Date

ASSIGNMENT

For valuable consideration, we, JAMES P. O'CONNELL of Solana Beach, California and a citizen of the U.S.A.; and LING WANG of San Diego, California and a citizen of the China (hereinafter referred to as "Assignors") hereby assign to NANOGEN, INC., a corporation organized and existing under and by the virtue of the laws of the State of Delaware and having a 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 April 12, 1999, U.S. Serial No. 09/291,129 entitled **METHODS FOR DETERMINATION OF SINGLE NUCLEIC ACID POLYMORPHISMS USING A BIOELECTRONIC MICROCHIP**, and related applications and patents, 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.

WITNESS my hand at San Diego, California, USA,
this 25th day of July, 2000.

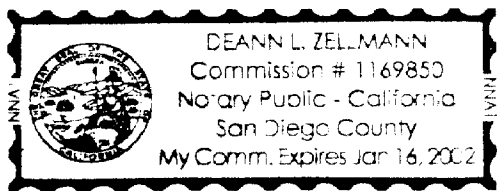
James P. O'Connell
James P. O'Connell

STATE OF CALIFORNIA)
) SS
COUNTY OF SAN DIEGO)

On 7/25/00 before me, DEANN L. ZELLMANN, 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
Notary Public in and for said County and State

WITNESS my hand at San Diego

this 26 day of July, 2000.

Ling Wang
Ling Wang

STATE OF CALIFORNIA)
) ss
COUNTY OF SAN DIEGO)

On 7/26/00 before me, DEANN L. ZELLMANN, personally appeared
Ling Wang

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
Notary Public in and for said County and State

