

**PATENT ASSIGNMENT**

Electronic Version v1.1  
 Stylesheet Version v1.1

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT														
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT														
<b>CONVEYING PARTY DATA</b>															
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:70%;">Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>David Stenger</td> <td>06/30/2005</td> </tr> <tr> <td>Baochuan Lin</td> <td>06/28/2005</td> </tr> <tr> <td>Dzung Thach</td> <td>07/08/2005</td> </tr> <tr> <td>Gary Vora</td> <td>06/29/2005</td> </tr> <tr> <td>Zheng Wang</td> <td>06/30/2005</td> </tr> <tr> <td>Jennifer Johnson</td> <td>06/28/2005</td> </tr> </tbody> </table>		Name	Execution Date	David Stenger	06/30/2005	Baochuan Lin	06/28/2005	Dzung Thach	07/08/2005	Gary Vora	06/29/2005	Zheng Wang	06/30/2005	Jennifer Johnson	06/28/2005
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<b>RECEIVING PARTY DATA</b>															
<b>Name:</b>	The Government of the United States, as respresented by the Secretary of the Navy														
<b>Street Address:</b>	875 N Randolph St														
<b>Internal Address:</b>	Suite 1425														
<b>City:</b>	Arlington														
<b>State/Country:</b>	VIRGINIA														
<b>Postal Code:</b>	22203														
<b>PROPERTY NUMBERS Total: 1</b>															
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:30%;">Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td><b>Application Number:</b></td> <td>12100519</td> </tr> </tbody> </table>		Property Type	Number	<b>Application Number:</b>	12100519										
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<b>Application Number:</b>	12100519														
<b>CORRESPONDENCE DATA</b>															
<b>Fax Number:</b>	(202)404-7380														
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>															
<b>Phone:</b>	202-404-1556														
<b>Email:</b>	joseph.grunkemeyer@nrl.navy.mil														
<b>Correspondent Name:</b>	Joseph T Grunkemeyer														
<b>Address Line 1:</b>	4555 Overlook Ave, SW														
<b>Address Line 2:</b>	Code 1008.2														
<b>Address Line 4:</b>	Washington, DISTRICT OF COLUMBIA 20375														
<b>ATTORNEY DOCKET NUMBER:</b>	99244-US1														

**CH \$40.00 12100519**

**PATENT**

**500510270**

**REEL: 020782 FRAME: 0352**

NAME OF SUBMITTER:

Joseph T Grunkemeyer

Total Attachments: 3

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## ASSIGNMENT

WHEREAS, I/We, David Stenger, of Herndon, VA, Baochuan Lin, of Bethesda, MD, Dzung Thach of Annadale, VA, Gary Vora of Washington, DC and Zheng Wang, of Burke, VA, while employed by the Government of the United States, have invented certain new and useful improvements in "METHODS AND APPARATUS FOR SIMULTANEOUS RAPID DETECTION AND AGENT-SPECIFIC IDENTIFICATION OF MULTIPLE, DIVERSE PATHOGENS USING RESEQUENCING DNA MICROARRAYS", identified as Navy Case No. 96,747 and described in application for Letters Patent of the United States of America executed by us; and:

WHEREAS, the Government of the United States, represented by the Secretary of the Navy and hereinafter referred to as the Government, is desirous of acquiring an assignment of the invention disclosed in said application and other rights and benefits herein granted; and

WHEREAS, the conditions under which the invention was made are such as to entitle the Government under Paragraph 1(a) of Executive Order 10096, to the entire right, title and interest therein, including foreign rights; and

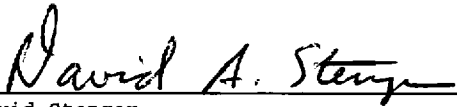
WHEREAS, as to foreign rights, it is the policy of the Government to obtain an option to exercise such rights;

NOW, THEREFORE, in consideration of the premises and other good and valuable consideration the receipt of which is hereby acknowledged, I hereby assign and transfer to the Government the entire right, title and interest in and to said invention within the United States of America, its territories and possessions, and the entire right, title and interest in and to said application and any continuation, division, or substitution thereof, and such Letters Patent as may issue therefrom and any reissue or extensions thereof, said invention, application and Letters Patent to be held by the Government to the end of the term for which said Letters Patent may be granted, as fully and entirely as the same would have been held by me had this assignment not been made.

I/We do hereby also grant unto the Government, the option to take the entire right, title and interest in the invention and all patent applications or other forms of protection thereon in all countries foreign to the United States in which the Government may file, or cause to be filed, applications for Letters Patent or other forms of protection, without payment of any consideration; provided, however, that this grant of an option to take foreign rights in the invention, or applications or other forms of protection thereon, shall have force and effect only as to such applications for which a decision to file in foreign countries is made within eight months of the filing date of any application for United States Letters Patent covering the invention, or within eight months from the declassification of the invention, whichever is later, and that all foreign rights not exercised under the option are left to me subject to a nonexclusive, irrevocable, royalty-free license to the Government in any patent or other form of protection which may issue on said invention in any foreign country, including the power to issue sub-licenses for use in behalf of the Government and/or in furtherance of the foreign policies of the Government.

I/We hereby further agree to make, execute, and deliver to the Government, any and all papers, documents, affidavits, statements, or other instruments that may be necessary in the prosecution of the application and of any continuation, division or substitution of the application, or any application for reissue or extension of said Letters Patent, and to assist the Government in every way in protecting the invention as may be requested, provided that any expense arising through such efforts will be paid by the Government.

IN TESTIMONY WHEREOF, I/We have set my hand and affixed my seal.

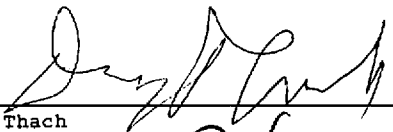
  
 \_\_\_\_\_  
 David Stenger

DATE: June 30 - 2005

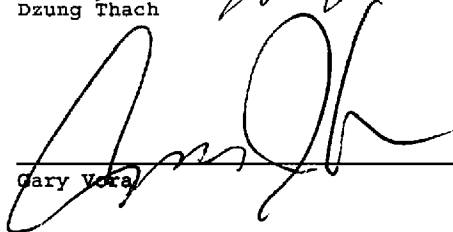
  
 \_\_\_\_\_  
 Baochuan Lin

DATE: June 28 2005

ASSIGNMENT

  
\_\_\_\_\_  
Dzung Thach

DATE: 7/8/05

  
\_\_\_\_\_  
Gary Vora

DATE: 06.28.05

  
\_\_\_\_\_  
Zheng Wang

DATE: 6/30/05

### Assignment

<b>Title</b> METHODS AND APPARATUS FOR SIMULTANEOUS RAPID DETECTION AND AGENT-SPECIFIC IDENTIFICATION OF MULTIPLE, DIVERSE PATHOGENS USING RESEQUENCING DNA MICROARRAYS		
<b>Inventor(s) (Name)</b> ROSS ROWLEY Eric Hanson David Stenger Clark Tibbets Beth Wallace Brian Agan Russell Kruzelock Baochuan Lin Dung Thach Gary Vera Zheng Wang Jennifer Thornton <i>JT</i> Don Seip	<b>Contractor</b> NOVA Research	
	<b>Contract No.</b> N00173-03-C-2037	<b>Government Agency</b> NRL
	<b>Contractor Invention Docket No.</b>	<b>Agency Docket No.</b> 96,747
	<b>Date Executed</b>	<b>Serial No</b>

The undersigned inventor(s), in recognition of his (their) obligation as employee(s) of the Contractor to assign inventions to the Contractor, and pursuant to the obligation of the Contractor to the Government under the above contract, hereby assigns (assign) to the United States of America, subject to a nonexclusive and royalty-free license which is hereby reserved to the Contractor, all rights, title and interest in and to each invention disclosed and claimed in the above U.S. patent application and any foreign patent application that corresponds thereto.

The license reserved to the Contractor shall extend to all existing and future associated and affiliated companies, if any within the corporate structure of which the Contractor is a part and shall be assignable to the successor of that part of the Contractor's business to which such invention pertains.

The inventor(s) further agrees (agree) to assist the Contractor, and the Government, upon request, by furnishing any available information and documents, and by performing all acts and doing all things which may be reasonably necessary to make this agreement effective.

The Contractor joins in and agrees to the foregoing assignment, and except for the above reservation of a license relinquishes and assigns all right, title and interest in and to such invention, and further agrees to furnish to the United States of America, upon request, any available information and documents necessary for the prosecution of the above-identified application for patent (including prosecution and settlement of interferences), and any substitution, division, continuation-in-part, or continuation of such patent application and any application for reissue of any patent resulting from such patent application.

6/28/05  
Date

\_\_\_\_\_  
Date

\_\_\_\_\_  
Date

Jennifer Thornton Jennifer Thornton  
Inventor

\_\_\_\_\_  
Inventor

\_\_\_\_\_  
Inventor

Signed this \_\_\_\_\_ Day of \_\_\_\_\_

Attest:

(Seal)

6/28, 1905

*Jennifer Thornton*  
Contractor  
by *[Signature]*  
NOVA Research, Inc.  
1/8/07