

Form PTO-1595 (Rev. 03/05)
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To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below.

1. Name of conveying party(ies) Nathan S. Lewis, Ph.D. Michael S. Freund, Ph.D. Shawn M. Briglin Additional name(s) of conveying party(ies) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	2. Name and address of receiving party(ies) Name: <u>California Institute of Technology</u> Internal Address: _____ _____ Street Address: <u>1200 East California Boulevard</u> _____ City: <u>Pasadena</u> State: <u>California</u> Country: <u>U.S.A.</u> Zip: <u>91125</u> Additional name(s) & address(es) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
3. Nature of conveyance/Execution Date(s): Execution Date(s) <u>11/22/02; 03/31/03; and 06/26/03</u> <input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name <input type="checkbox"/> Joint Research Agreement <input type="checkbox"/> Government Interest Assignment <input type="checkbox"/> Executive Order 9424, Confirmatory License <input type="checkbox"/> Other _____	

4. Application or patent number(s): A. Patent Application No.(s) <u>09/842,204</u> Additional numbers attached? <input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> This document is being filed together with a new application. B. Patent No.(s)
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5. Name and address to whom correspondence concerning document should be mailed: Name: <u>Joseph R. Baker, Jr.</u> Internal Address: <u>Burns Doane Swecker & Mathis LLP</u> _____ Street Address: <u>402 West Broadway, Suite 400</u> _____ City: <u>San Diego</u> State: <u>California</u> Zip: <u>92101</u> Phone Number: <u>(619) 446-5600</u> Fax Number: <u>(619) 446-5620</u> Email Address: <u>jbaker@burnsdoane.com</u>	6. Total number of applications and patents involved: <u>1</u> 7. Total fee (37 CFR 1.21(h) & 3.41) \$40.00 <input checked="" type="checkbox"/> Authorized to be charged by credit card <input type="checkbox"/> Authorized to be charged to deposit account <input type="checkbox"/> Enclosed <input type="checkbox"/> None required (government interest not affecting title)
	8. Payment Information a. Credit Card Last 4 Numbers <u>1001</u> Expiration Date <u>09/05</u> b. Deposit Account Number _____ Authorized User Name _____

9. Signature:  _____ Signature Joseph R. Baker, Jr.	Date <u>April 22, 2005</u> Total number of pages including cover sheet, attachments, and documents: 7
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Documents to be recorded (including cover sheet) should be faxed to (703) 306-5995, or mailed to:
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OP \$40.00 09842204

Attorney Docket No: 06618-896001/CIT 2976-CIP

ASSIGNMENT

For valuable consideration, we, NATHAN S. LEWIS, PH.D. of 5259 Gould Avenue La Canada, CA 91011, MICHAEL S. FREUND, PH.D. of 329 W. Highland Avenue Sierra Madre, CA 91024, SHAWN M. BRIGLIN of 442 South Catalina Avenue #302 Pasadena, CA 91106, hereby assign to:

California Institute of Technology, a corporation of non-profit having a place of business at:
1200 East California Boulevard
Pasadena, CA 91125; and

its successors and assigns (collectively hereinafter called "the Assignee"), the entire right, title and interest throughout the world in the inventions and improvements which are subject of an application for United States Patent signed by us, entitled SPATIOTEMPORAL AND GEOMETRIC OPTIMIZATION OF SENSOR ARRAYS FOR DETECTING ANALYTES FLUIDS, filed April 24, 2001, and assigned U.S. Serial Number 09/842,204, and we authorize and request the attorneys appointed in said application to hereafter complete this assignment by inserting above the filing date and serial number of said application when known; this assignment including said application, any and all United States and foreign patents, utility models, and design registrations granted for any of said inventions or improvements, and the right to claim priority based on the filing date of said application 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 name or in its own name for patents, utility models, design registrations and like rights of exclusion and for inventors' certificates for said inventions and improvements; and we agree for ourselves and our respective heirs, legal representatives and assigns, without further compensation to perform such lawful acts and to sign such further applications, assignments, Preliminary Statements and other lawful documents as the Assignee may reasonably request to effectuate fully this assignment.

Attorney Docket No: 06618-896001/CIT 2976-CIP

IN WITNESS WHEREOF, I hereto set my hand and seal at Pasadena, CA
this 26 day of JUNE, 2003
Nathan S. Lewis L.S.
NATHAN S. LEWIS, PH.D.

State of California :
: ss.
County of Los Angeles :

Before me this _____ day of _____, 20_____, personally
appeared NATHAN S. LEWIS, PH.D. known to me to be the person whose name is subscribed
to the foregoing Assignment and acknowledged that he executed the same as his free act and
deed for the purposes therein contained.

Notary Public

My Commission Expires:

[Notary's Seal Here]

Attorney Docket No: 06618-896001/CIT 2976-CIP

IN WITNESS WHEREOF, I hereto set my hand and seal at City of Winnipeg,
this 31 day of March, 2003
[Signature] L.S.
MICHAEL S. FREUND, PH.D.

State of PROVINCE OF MANITOBA, CANADA :

: ss.

County of _____ :

Before me this 31st day of MARCH, 2003, personally
appeared MICHAEL S. FREUND, PH.D. known to me to be the person whose name is
subscribed to the foregoing Assignment and acknowledged that he executed the same as his free
act and deed for the purposes therein contained.

[Signature]

Notary Public
My Commission Expires: DOES NOT EXPIRE

[Notary's Seal Here]

Attorney Docket No: 06618-896001/CIT 2976-CIP

IN WITNESS WHEREOF, I hereto set my hand and seal at Pasadena, CA
this 22nd day of November, 2002

Shawn M. Briglin
SHAWN M. BRIGLIN L.S.

State of _____ :
: ss.

County of _____ :

Before me this _____ day of _____, 20____, personally
appeared SHAWN M. BRIGLIN known to me to be the person whose name is subscribed to the
foregoing Assignment and acknowledged that he executed the same as his free act and deed for
the purposes therein contained.

Notary Public
My Commission Expires:

[Notary's Seal Here]

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