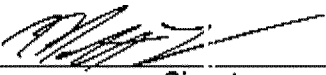


Client Code: BEAERO.020A

**RECORDATION FORM COVER SHEET
PATENTS ONLY**

To the Director, U.S. Patent and Trademark Office: Please record the attached original documents or copy thereof.

<p>1. Name of conveying party(ies): (List using letters or numbers for multiple parties)</p> <p>(1) Kenneth W. Cowans; (2) William W. Cowans; (3) Glenn W. Zubillaga; (4) Isaac Millan.</p> <p>Additional name(s) of conveying party(ies) attached?</p> <p>() Yes (X) No</p>	<p>2. Name and address of receiving party(ies):</p> <p>Name: Advanced Thermal Sciences Corporation</p> <p>Street Address: 3355 East La Palma Ave.</p> <p>City: Anaheim State: CA</p> <p>ZIP: 92806</p> <p>Additional name(s) of receiving party(ies) attached?</p> <p>() Yes (X) No</p>
<p>3. Nature of conveyance:</p> <p>(X) Assignment () Security Agreement</p> <p>() Merger () Change of Name</p> <p>() Other:</p> <p>Execution Date: (List as in section 1 if multiple signatures)</p> <p>(1) January 18, 2011; (2) January 18, 2011; (3) January 18, 2011; (4) January 18, 2011.</p>	<p>4. US or PCT Application number(s) or US Patent number(s):</p> <p>(X) Patent Application No.: 11/408558</p> <p>Filing Date: April 21, 2006</p> <p>Additional numbers attached?</p> <p>() Yes (X) No</p>
<p>5. Party to whom correspondence concerning document should be mailed:</p> <p>Customer No. 20,995</p> <p>Address: Knobbe, Martens, Olson & Bear, LLP 2040 Main Street, 14th Floor Irvine, CA 92614</p> <p>Return Fax: (949) 760-9502</p> <p>Attorney's Docket No.: BEAERO.020A</p>	<p>6. Total number of applications and patents involved: 1</p>
<p>7. Total fee (37 CFR 1.21(h)): \$40</p> <p>(X) Authorized to be charged to deposit account</p>	<p>8. Deposit account number: 11-1410</p> <p>Please charge this account for any additional fees which may be required, or credit any overpayment to this account.</p>
<p>9. Statement and signature.</p> <p>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.</p> <p><u>Matthew V. Lincicum</u> Name of Person Signing</p> <p><u></u> Signature</p> <p><u>7/27/11</u> Date</p> <p>61,319 Registration No.</p> <p>Total number of pages including cover sheet, attachments and document: 6</p>	

Documents transmitted via Facsimile to be recorded with required cover sheet information to:

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Application No.: 11/408,558
Filing Date: April 21, 2006

Docket Number: BEAERO.020A
Page 1 of 5

ASSIGNMENT

WHEREAS, Kenneth W. Cowans, a US citizen, residing at 1213 El Mirador Drive, Fullerton, CA 92835, William W. Cowans, a US citizen, residing at 2419 West Cherry Avenue, Fullerton, CA 92833, Glenn W. Zubillaga, a US citizen, residing at 22500 Canyon Lake Drive, Canyon Lake, CA 92587, Isaac Millan, a US citizen, residing at 9608 Julius Avenue, Downey, CA 90240, (individual(s) hereinafter "ASSIGNOR") invented certain new and useful improvements, technology, inventions, developments, ideas or discoveries related to METHOD FOR AGILE WORKPIECE TEMPERATURE CONTROL IN A PLASMA REACTOR USING A THERMAL MODEL (collectively hereinafter referred to as the "Work") for which an application for Letters Patent in the United States has been prepared for filing (identified above) with the United States Patent and Trademark Office (hereinafter the "Application");

AND WHEREAS, Advanced Thermal Sciences Corporation, a Delaware Corporation, with its principal place of business at 3355 East La Palma Avenue, Anaheim, CA 92806 (hereinafter the "ASSIGNEE"), desires to acquire the ASSIGNOR'S right, title, and interest in and to the Application and the Work;

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, ASSIGNOR hereby acknowledges that ASSIGNOR has sold, assigned, transferred and set over, and by these presents does hereby sell, assign, transfer and set over, unto said ASSIGNEE, its successors, legal representatives and assigns, its entire right, title, and interest throughout the world in the Application and the Work, including all provisional applications relating thereto and all nonprovisional applications claiming priority thereto, including, all divisions, continuations, continuations-in-part, reissues, and reexaminations thereof, and all Letters Patent of the United States which may be granted thereon and all reissues and extensions thereof, and all rights of priority under International Conventions and any related Letters Patent which may hereafter be granted or filed in any country or countries foreign to the United States, all extensions, renewals and reissues thereof; and ASSIGNOR hereby authorizes and requests the Commissioner of Patents of the United States, and any Official of any country or countries foreign to the United States, whose duty it is to issue patents on applications as aforesaid, to issue all related Letters Patent to the ASSIGNEE, its successors, legal representatives and assigns, in accordance with the terms of this instrument.

AND ASSIGNOR DOES HEREBY sell, assign, transfer, and convey to ASSIGNEE, its successors, legal representatives, and assigns all of ASSIGNOR's claims for damages and all remedies arising out of any violation of the rights assigned hereby that may have accrued prior to the date of assignment to ASSIGNEE, or may accrue hereafter, including, but not limited to, the right to sue for, collect, and retain damages for past infringements of said Letters Patent before or after issuance.

AND ASSIGNOR DOES HEREBY covenant and agree that ASSIGNOR will communicate to said ASSIGNEE, its successors, legal representatives and assigns, any facts known to ASSIGNOR respecting the Work, and testify in any legal proceeding, assist in the preparation of any other provisional or non-provisional applications relating to the Application and the Work or any improvements made thereto, sign all lawful papers, execute and make all rightful oaths and/or declarations in connection with the Application and the Work including any improvements made thereto, any patent applications filed therefrom, and any continuing application filed from any of the aforementioned applications, and generally do everything possible to aid the ASSIGNEE, its successors, legal representatives and assigns, to obtain and enforce proper patent protection for the Work in all countries.

Application No.: 11/408,558
Filing Date: April 21, 2006

Docket Number: BEAERO.020A
Page 2 of 5

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this 18 day of January, 2011.

Kenneth Cowans
Kenneth Cowans

STATE OF CALIFORNIA

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ss.

COUNTY OF Orange

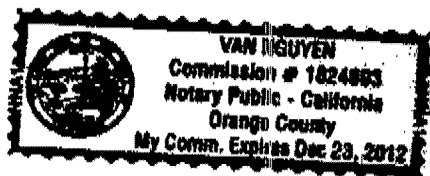
}

On January 18, 2011, before me, Van Nguyen, notary public, personally appeared Ken Cowans who 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.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

[SEAL]



Van Nguyen
Notary Signature

Application No.: 11/408,558
Filing Date: April 21, 2006

Docket Number: BEAERO.020A
Page 3 of 5

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this 18th day of January, 2011.


William Cowans

STATE OF CALIFORNIA

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ss.

COUNTY OF Orange

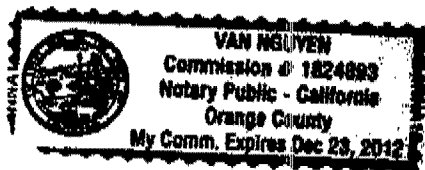
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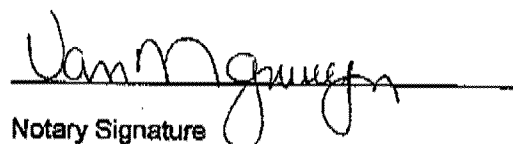
On January 18, 2011, before me, Van Nguyen, notary public, personally appeared William Cowans who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument, and acknowledged to me that he/she/they executed the same in his/her/their 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.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

[SEAL]

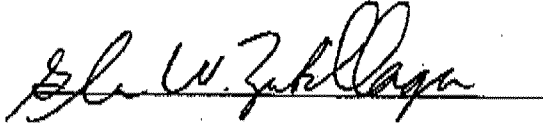



Notary Signature

Application No.: 11/408,558
Filing Date: April 21, 2006

Docket Number: BEAERO.020A
Page 4 of 5

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this 18 day of Jan, 2011.


Glenn Zubillaga

STATE OF CALIFORNIA }

ss.

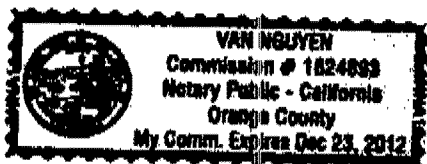
COUNTY OF Orange }

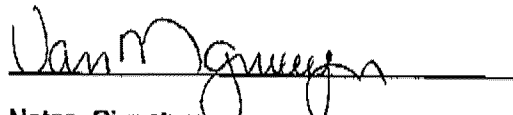
On January 18, 2011, before me, Van Nguyen, notary public, personally appeared Glenn Zubillaga who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument, and acknowledged to me that he/she/they executed the same in his/her/their 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.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

[SEAL]

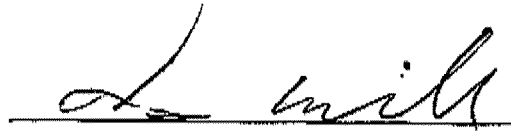



Notary Signature

Application No.: 11/408,558
Filing Date: April 21, 2006

Docket Number: BEAERO.020A
Page 5 of 5

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this 18th day of January, 2011.



Issac Millan

STATE OF CALIFORNIA

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ss.

COUNTY OF Orange

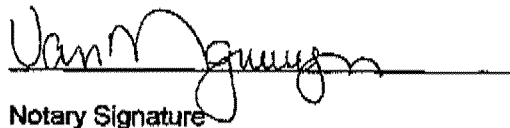
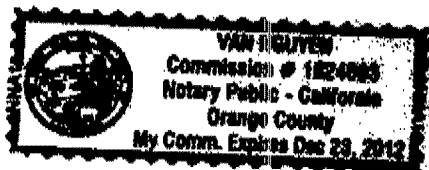
}

On January 18, 2011, before me, Van Nguyen, notary public, personally appeared Issac Millan who 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.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal:

[SEAL]



Notary Signature

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PATENT

RECORDED: 07/27/2011

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