

PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
Advanced Thermal Sciences Corporation	03/16/2012
RECEIVING PARTY DATA	
Name:	BE Aerospace, Inc.
Street Address:	1400 Corporate Center Way
City:	Wellington
State/Country:	FLORIDA
Postal Code:	33414
PROPERTY NUMBERS Total: 10	
Property Type	Number
Patent Number:	8012304
Patent Number:	8034180
Patent Number:	8021521
Patent Number:	7988872
Application Number:	11409183
Application Number:	11409292
Application Number:	11408333
Application Number:	11408567
Application Number:	12949028
Application Number:	12953793
CORRESPONDENCE DATA	
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Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.	

OP \$400.00 8012304

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ATTORNEY DOCKET NUMBER:	BEAERO.028GEN
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NAME OF SUBMITTER:	Matthew V. Lincicum
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Total Attachments: 4

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ASSIGNMENT OF INTEREST IN CO-OWNED APPLICATIONS ACQUIRED FROM APPLIED MATERIALS, INC.

WHEREAS, Advanced Thermal Sciences Corporation, a Delaware corporation having offices at 3355 East La Palma Avenue, Anaheim, CA 92806 (hereinafter "ASSIGNOR"), represents and warrants that it is the owner of an undivided one-half interest in certain new and useful improvements for which the following United States issued Letters Patent and applications for Letters Patent in the United States (hereinafter "the Patents and Patent Applications") have been filed:

<u>Patent No.</u>	<u>Issue Date</u>	<u>Title</u>
8,012,304	09/06/2011	PLASMA REACTOR WITH A MULTIPLE ZONE THERMAL CONTROL FEED FORWARD CONTROL APPARATUS
8,034,180	10/11/2011	METHOD OF COOLING A WAFER SUPPORT AT A UNIFORM TEMPERATURE IN A CAPACITIVELY COUPLED PLASMA REACTOR
8,021,521	09/20/2011	METHOD FOR AGILE WORKPIECE TEMPERATURE CONTROL IN A PLASMA REACTOR USING A THERMAL MODEL
7,988,872	08/02/2011	METHOD OF OPERATING A CAPACITIVELY COUPLED PLASMA REACTOR WITH DUAL TEMPERATURE CONTROL LOOPS

<u>Application No.</u>	<u>Filing Date</u>	<u>Title</u>
11/409,183	04/21/2006	PLASMA REACTOR WITH FEED FORWARD THERMAL CONTROL SYSTEM USING A THERMAL MODEL FOR ACCOMMODATING RF POWER CHANGES OR WAFER TEMPERATURE CHANGES
11/409,292	04/21/2006	CAPACITIVELY COUPLED PLASMA REACTOR HAVING A COOLED/HEATED WAFER SUPPORT WITH UNIFORM TEMPERATURE DISTRIBUTION
11/408,333	04/21/2006	CAPACITIVELY COUPLED PLASMA REACTOR HAVING VERY AGILE WAFER

TEMPERATURE CONTROL

11/408,567	04/21/2006	PLASMA REACTOR WITH WAFER BACKSIDE THERMAL LOOP, TWO- PHASE INTERNAL PEDESTAL THERMAL LOOP AND A CONTROL PROCESSOR GOVERNING BOTH LOOPS
12/949,028	11/18/2010	METHOD OF PROCESSING A WORKPIECE IN A PLASMA REACTOR USING FEED FORWARD THERMAL CONTROL
12/953,793	11/24/2010	METHOD OF PROCESSING A WORKPIECE IN A PLASMA REACTOR USING MULTIPLE ZONE FEED FORWARD THERMAL CONTROL

WHEREAS, BE Aerospace, Inc., a Delaware corporation having offices at 1400 Corporate Center Way, Wellington, FL 33414 (hereinafter "ASSIGNEE") desires to acquire the ASSIGNOR'S entire right, title, and interest in and to the inventions disclosed in the Patents and Patent Applications;

NOW, THEREFORE, in return for good and valuable consideration, the receipt of which is hereby acknowledged, ASSIGNOR hereby further acknowledges that it has sold, assigned, and transferred, and by these presents does hereby sell, assign, and transfer, unto ASSIGNEE, its successors, legal representatives, and assigns, the ASSIGNOR'S entire right, title, and interest throughout the world in, to, and under the said improvements, and said Patents and Patent Applications and all Patents that may be granted thereon, and all provisional applications relating thereto (including but not limited to U.S. Provisional Application Nos. 60/725,763 and 60/729,314, filed October 11, 2005 and October 20, 2005, respectively), and all divisions, continuations, reissues, reexaminations, renewals, and extensions thereof, and all rights of priority under International Conventions and applications for Letters Patent that may hereafter be filed for said improvements or for the said Patents and Patent Applications in any country or countries foreign to the United States; and ASSIGNOR hereby authorizes and requests the Commissioner of Patents of the United States, and any Official of any country foreign to the United States, whose duty it is to issue patents on applications as aforesaid, to issue all Letters Patent for said improvements and all Letters Patent resulting from the Patents and Patent Applications to ASSIGNEE (and, as appropriate, the co-owner), its successors, legal representatives, and assigns, in accordance with the terms of this Agreement.

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 the Letters Patent before or after issuance;

ASSIGNOR hereby covenants and agrees that it will communicate to ASSIGNEE, its successors, legal representatives, and assigns any facts known to ASSIGNOR respecting the Patents and Patent Applications immediately upon becoming aware of those facts, and that it will testify in any legal proceeding involving any of the Patents and Patent Applications, will sign all lawful papers, execute all divisional, continuing, and reissue applications, make all rightful oaths, and will generally do everything possible to aid ASSIGNEE, its successors, legal representatives, and assigns to obtain and enforce the Patents and Patent Applications in all countries.

In witness hereof, ASSIGNOR has executed this instrument:

BY:

Signature:  Date: MARCH 16, 2012
Name: THOMAS P. McCAFFREY Title: VICE PRESIDENT

Assignor: Advanced Thermal Sciences Corporation

Address: 3355 East La Palma Avenue, Anaheim, CA 92806

**Sign in presence of a Notary and have
Notary attach Acknowledgement**

STATE OF FLORIDA
COUNTY OF PALM BEACH

The foregoing instrument was acknowledged before me this 16 day of March, 2012, by
Thomas P. McCaffrey.

(NOTARY SEAL)


Ann F. Trebby

Personally Known X OR Produced Identification _____

Type of Identification Produced _____

