

## PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT												
NATURE OF CONVEYANCE:	ASSIGNMENT												
CONVEYING PARTY DATA													
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<table border="1"> <tr> <td>Name:</td> <td>COMBUSTION SCIENCE &amp; ENGINEERING, INC.</td> </tr> <tr> <td>Street Address:</td> <td>8940 Old Annapolis Road</td> </tr> <tr> <td>Internal Address:</td> <td>Suite K</td> </tr> <tr> <td>City:</td> <td>Columbia</td> </tr> <tr> <td>State/Country:</td> <td>MARYLAND</td> </tr> <tr> <td>Postal Code:</td> <td>21045</td> </tr> </table>		Name:	COMBUSTION SCIENCE & ENGINEERING, INC.	Street Address:	8940 Old Annapolis Road	Internal Address:	Suite K	City:	Columbia	State/Country:	MARYLAND	Postal Code:	21045
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CORRESPONDENCE DATA													
<p>Fax Number: 7037735200  <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Phone: 7037734148        Email: PatentProsecutionRes@dlapiper.com        Correspondent Name: Dale Lazar        Address Line 1: P.O. Box 2758        Address Line 4: Reston, VIRGINIA 20195</p>													
ATTORNEY DOCKET NUMBER:	3858-023 US												
NAME OF SUBMITTER:	Bert Lee												

OP \$80.00 14024422

Signature:	/Bert Lee/
Date:	09/12/2013
Total Attachments: 2 source=3858-023-US-Assignment#page1.tif source=3858-023-US-Assignment#page2.tif	

Docket No.: 3858-023 US

## Assignment of Application

WHEREAS, I (we):

Ponnuthurai GOKULAKRISHNAN of Columbia, Maryland,  
Darin VIEHE of Frederick, Maryland,  
Andrew TRETTEL of Jefferson, Maryland,  
Michael S. KLASSEN of Columbia, Maryland,

respectively, have invented certain new and useful improvements in:

COMPUTATIONALLY EFFICIENT REDCUTED KINETIC METHODOLOGIES OF JET  
FUELS

for which the following application(s) for Letters Patent was (were) filed on the date(s) indicated below (the "Invention"):

Application No. 14/024,422, Filed: September 11, 2013

Application No. 61/700,093, Filed: September 12, 2012

(the "Applications(s)"); and


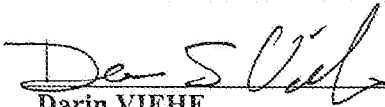

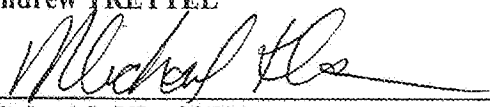
Whereas, COMBUSTION SCIENCE & ENGINEERING, INC. (hereinafter referred to as "ASSIGNEE"), having a place of business at 8940 Old Annapolis Road, Suite K, Columbia, MD 21045 is desirous of acquiring the full and exclusive right in and to the Invention and the Application(s) and the entire right, title and interest in and to any and all Letters Patent which may be granted therefor in the United States and its territorial possessions and in any and all foreign countries;

NOW, THEREFORE, in consideration of the sum of FIVE DOLLARS (\$5.00), the receipt of which is hereby acknowledged, and for other good and valuable consideration, I (we), by these presents do sell, assign and transfer unto said ASSIGNEE, the full and exclusive right in and to the Invention and the Application(s) in the United States and its territorial possessions and in any and all foreign countries, and the entire right, title and interest in and to any and all documents and things relating to the conception, reduction to practice and/or practice of the Invention and all Letters Patent which may be granted for the Invention and/or the Applications in the United States and its territorial possessions and in any and all foreign countries and in and to any and all divisions, continuations, substitutions, renewals and reissues thereof.

I (we) hereby authorize and request the Patent Office Officials in the United States and its territorial possessions and in any and all foreign countries to issue any and all of said Letters Patent, when granted, to said ASSIGNEE as the assignee of my (our) entire right, title and interest in and to the same, for the sole use and behoof of said ASSIGNEE and said ASSIGNEE's successors and assigns, to the full 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 (us) had this Assignment and sale not been made.

Further, I (we) agree that I (we) will communicate to said ASSIGNEE or said ASSIGNEE's representatives any facts known to me (us) respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuation, substitute, renewal and reissue applications, execute all necessary assignment papers to cause any and all of said Letters Patent to be issued to said ASSIGNEE, make all rightful oaths, and, generally, do everything possible to aid said ASSIGNEE, and said ASSIGNEE's successors and assigns, to obtain and enforce proper protection for said Invention in the United States and its territorial possessions and in any and all foreign countries.

The undersigned hereby grant(s) the firm of DLA Piper LLP (US), 500 8th Street, NW, Washington, DC 20004-2131, the power to insert on this Assignment any further identification, including the application number and filing date, which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

Date: <u>Sept 11, 2013</u>	 Ponnuthurai GOKULAKRISHNAN
Date: <u>9.11.2013</u>	 Darin VIEHE
Date: <u>9/11/13</u>	 Andrew TRETTEL
Date: <u>Sept. 11, 2013</u>	 Michael S. KLASSEN