

PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT2735313

SUBMISSION TYPE:	NEW ASSIGNMENT										
NATURE OF CONVEYANCE:	ASSIGNMENT										
CONVEYING PARTY DATA											
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>ARUN ARORA</td> <td>02/11/2014</td> </tr> <tr> <td>MARVIN I. GREENE</td> <td>02/11/2014</td> </tr> </tbody> </table>		Name	Execution Date	ARUN ARORA	02/11/2014	MARVIN I. GREENE	02/11/2014				
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ARUN ARORA	02/11/2014										
MARVIN I. GREENE	02/11/2014										
RECEIVING PARTY DATA											
<table border="1"> <tr> <td>Name:</td> <td>LUMMUS TECHNOLOGY INC.</td> </tr> <tr> <td>Street Address:</td> <td>1515 BROAD STREET</td> </tr> <tr> <td>City:</td> <td>BLOOMFIELD</td> </tr> <tr> <td>State/Country:</td> <td>NEW JERSEY</td> </tr> <tr> <td>Postal Code:</td> <td>07003-3096</td> </tr> </table>		Name:	LUMMUS TECHNOLOGY INC.	Street Address:	1515 BROAD STREET	City:	BLOOMFIELD	State/Country:	NEW JERSEY	Postal Code:	07003-3096
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PROPERTY NUMBERS Total: 1											
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CORRESPONDENCE DATA											
<p>Fax Number: (713)228-8778</p> <p>Email: kingery@oshaliang.com</p> <p><i>Correspondence will be sent via US Mail when the email attempt is unsuccessful.</i></p> <p>Correspondent Name: JEFFREY S. BERGMAN</p> <p>Address Line 1: 909 FANNIN ST.</p> <p>Address Line 2: SUITE 3500</p> <p>Address Line 4: HOUSTON, TEXAS 77010</p>											
ATTORNEY DOCKET NUMBER:	17421/163001										
NAME OF SUBMITTER:	ALAN KINGERY										
Signature:	/Jeffrey S. Bergman/										
Date:	02/20/2014										

This document serves as an Oath/Declaration (37 CFR 1.63).

Total Attachments: 3

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DECLARATION AND ASSIGNMENT – WORLDWIDE

Whereas, the undersigned individual(s) (referred to herein as the "INVENTOR(S)") has/have invented:

☐ The attached application to be filed as a United States application or PCT international application, or
☒ United States application or PCT international application number 14/179,083 filed on February 12, 2014; and, entitled:

PROCESSING VACUUM RESIDUUM AND VACUUM GAS OIL IN EBULLATED BED REACTOR SYSTEMS

Regarding that application, each of the INVENTOR(S) declares the following:

- The above-identified application was made or authorized to be made by me.
- I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.
- I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.

For good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the INVENTOR(S) hereby assign, transfer, and set over to:

Lummus Technology Inc.

having the following address:

1515 Broad Street
 Bloomfield, New Jersey 07003-3096

(referred to herein as "COMPANY"), its successors, and assigns, the entire right, title, and interest, worldwide, in and to the invention described in the patent application identified above (referred to herein as "INVENTION"), together with said patent application, all divisions, continuations, continuations-in-part, reissues, and extensions thereof, and all Letters Patent (domestic and foreign) that may be granted therefor. Such interest represents the entire ownership of said applications and Letters Patent when granted and is to be owned by COMPANY, its successors, and assigns, or their legal representatives, for the full and entire term for which such Letters Patent may be granted or extended, as fully and entirely as the same would have been enjoyed by the INVENTOR(S) if this assignment had not been made.

In addition, the undersigned INVENTOR(S) each hereby agrees:

1. To sign and execute any further documents that may be necessary or desirable, lawful, and proper in connection with the prosecution of all applications for patent(s) on the INVENTION in the United States, including without limitation said application and all divisions, continuations, continuations-in-part, amendments thereof, and all

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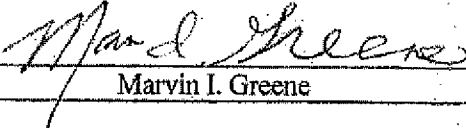
Intellectual Property Law

2. To execute all papers and documents and to perform all lawful acts that may be necessary in connection with claims to priority or otherwise under the International Convention for the Protection of Industrial Property or similar treaties or agreements;
3. To perform all lawful affirmative acts that may be necessary to obtain the grant of valid and enforceable patents to COMPANY.

The undersigned INVENTOR(S) each hereby authorizes and requests the Commissioner of Patents and Trademarks in the United States to issue any and all Letters Patent resulting from said application, including without limitation any division, continuation, continuation-in-part, or reissue thereof to COMPANY.

The undersigned INVENTOR(S) each hereby grants to the firm of OSHA • LIANG LLP the power to insert on this Assignment any further identification that may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for the recordation of this document.

IN WITNESS WHEREOF, this Assignment has been executed by each of the undersigned individuals on the date appearing by such individual's signature:

<u>2/11/14</u> Date	1 st Inventor Signature: <u></u> Print or Type Name: <u>Arun Arora</u>
<u>2/11/14</u> Date	2 nd Inventor Signature: <u></u> Print or Type Name: <u>Marvin I. Greene</u>
<u> </u> Date	3 rd Inventor Signature: <u> </u> Print or Type Name: <u> </u>
<u> </u> Date	4 th Inventor Signature: <u> </u> Print or Type Name: <u> </u>

This Assignment may be signed before either:
(a) a Notary Public for one of the States of the United States, or (b) two witnesses who sign below:

State of NEW JERSEY
County of ESSEX

NOTARY PUBLIC

Before me personally appeared: ARUN ARORA MARVIN I. GREENE
1st Inventor 2nd Inventor
3rd Inventor 4th Inventor

each of whom acknowledged the foregoing instrument to be a free act and deed and also represented that he/she is authorized to execute this Assignment.

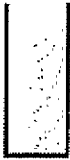
Dated: 2/11/14 Catherine M. Loreto
Notary Public My commission expires: CATHERINE M. LORETO
NOTARY PUBLIC OF NEW JERSEY
MY COMMISSION EXPIRES JULY 24, 2018

WIT

2/11/14 Signature of Witness: 

OSHALIANG

Intellectual Property Law



Date

Print or Type Name:

Robert Valente

Signature of Witness:

Maria R. Nardone

Date

Print or Type Name:

MARIA R. NARDONE