09/25/2013 502508789

PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date	
Robert John Brummer	09/19/2013	
Kevin John Schwint	09/19/2013	
Thomas Alexander Dwyer	09/19/2013	

RECEIVING PARTY DATA

Name:	Lummus Technology Inc.	
Street Address:	1515 Broad Street	
City:	Bloomfield	
State/Country:	NEW JERSEY	
Postal Code:	07003-3096	

PROPERTY NUMBERS Total: 1

Property Type	Number	
Application Number:	14034822	

CORRESPONDENCE DATA

Fax Number: 7132288778

Correspondence will be sent via US Mail when the fax attempt is unsuccessful.

Phone: 7132288600

Email: khennessey@oshaliang.com

Correspondent Name: Jeffrey S. Bergman

Address Line 1: 909 Fannin Suite 3500 Address Line 2:

Address Line 4: Houston, TEXAS 77010

ATTORNEY DOCKET NUMBER:	17421/125002
NAME OF SUBMITTER:	Jeffrey S. Bergman
Signature:	/Jeffrey S. Bergman/

REEL: 031277 FRAME: 0461

PATENT

Date:	09/24/2013
	This document serves as an Oath/Declaration (37 CFR 1.63).
Total Attachments: 2 source=17421125002assignment#page1.tif source=17421125002assignment#page2.tif	

PATENT REEL: 031277 FRAME: 0462



DECLARATION AND ASSIGNMENT - WORLDWIDE

•	Where	eas, the	undersigned	. individual(s) (referred	l to herein	as the "INVEN	TOR(S)")
has/have in	vented:		J	`				
		hed app	lication to be	e filed as a U	nited Stat	tes applicati	ion or PCT inte	ernational
application,	or							
				* *	or PCT	internation	nal application	number
14/034,	822_ filed	on <u>9/24</u>	<u>4/2013 ;</u> a	nd, entitled:				

BUTADIENE EXTRACTION PROCESS

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:

- 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 interference proceedings associated therewith, or otherwise necessary or desirable to secure the title thereto to COMPANY;
- 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;

PATENT REEL: 031277 FRAME: 0463

OSHA

Intellectual Property Law

 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.

indiv	IN WITNESS WHE iduals on the date appearing by	EREOF, this Assignment		ecuted by each of th	e undersigned
9	7/19/2013 Date	1 st Inventor Signature: Print or Type Name:	103	n Brummer	
_9	/19/2013	2 nd Inventor Signature:	Kny	437	
	Date	Print or Type Name:	Kevin John	Schwint	
91	19/2013 Date	3 rd Inventor Signature: Print or Type Name:	Thomas	alexander	Dwyer
	Date	rimi of Tybe Mame:	I RUMAS AR	exander Dwyer	
	(a) a Notary Public for or	This Assignment may be sign of the States of the United	gned before either States, or (b) two	r: witnesses who sign below	7
NOTARY PUBLIC	State of County of Before me personally appeared: each of whom acknowledged the fo	Robert John Brumm Thomas Alexander D These or going instrument to be a free	wyer	Kevin John Schwin 2 truestor 4 streenor d also represented that he/si	
NOT	execute this Assignment. Dated: 9-19-20(3	Nother Public	e line	Mission expires: JAY WE19, 2016 NOTARY	ME ANN INNES DELIC DE REWERSEY
S		•	*Ju		SION EXPIRES JUNE 19, 2016
WITNESSES	Date	Signature of Witness: Print or Type Name:			
TIM	Date	Signature of Witness: Print or Type Name:			

PATENT REEL: 031277 FRAME: 0464

RECORDED: 09/25/2013