

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT5711091

SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	ASSIGNMENT	
CONVEYING PARTY DATA		
	Name	Execution Date
	JILLIAN M. HORN	01/03/2018
RECEIVING PARTY DATA		
Name:	TPC GROUP LLC	
Street Address:	ONE ALLEN CENTER	
Internal Address:	500 DALLAS STREET, SUITE 1000	
City:	HOUSTON	
State/Country:	TEXAS	
Postal Code:	77022	
PROPERTY NUMBERS Total: 1		
	Property Type	Number
	Application Number:	15755810
CORRESPONDENCE DATA		
Fax Number:	(312)360-9315	
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i>		
Phone:	3123600080	
Email:	rlyons@gbc.law	
Correspondent Name:	PATRICIA L. PRIOR	
Address Line 1:	300 SOUTH WACKER DRIVE	
Address Line 2:	SUITE 2500	
Address Line 4:	CHICAGO, ILLINOIS 60606	
ATTORNEY DOCKET NUMBER:	H0045288-US-2 (125064)	
NAME OF SUBMITTER:	PATRICIA L. PRIOR	
SIGNATURE:	/Patricia L. Prior/	
DATE SIGNED:	09/10/2019	
Total Attachments: 2		
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WHEREAS, the undersigned inventor(s) (hereinafter individually and collectively referred to as "ASSIGNOR") has invented new and useful improvements in:

STAGED PRESSURE FOR BUTADIENE REACTORS TO ENHANCE ENERGY RECOVERY

for which application for patent in the United States:

_____ has been executed on even date herewith;

_____ was executed on _____;

_____ was filed on _____ and assigned U.S. Appl. No. _____;

 x was filed on August 25, 2016 and assigned PCT Appl. No. PCT/US16/48529;

AND WHEREAS, the "Assigned Property" shall mean (i) the above-identified Patent Cooperation Treaty application for patent (the "Application"), (ii) all inventions disclosed in the Application, (iii) any and all applications for patent throughout the world directed to the subject matter of the Application, (iv) the right of priority arising from the Application or from such other applications, under the Paris Convention for the Protection of Industrial Property or under relevant laws, treaties, conventions or bilateral and multilateral agreements, in any jurisdiction, (v) any and all patents throughout the world resulting from the Application or such other application(s) for patents, and (vi) any and all claims against third parties in connection with any of the rights assigned by this Agreement;

AND WHEREAS, TPC Group LLC, a Texas Limited Liability Company having a place of business at One Allen Center, 500 Dallas Street, Suite 1000, Houston, Texas 77002 its successors and assigns (hereinafter individually and collectively referred to as "ASSIGNEE"), is desirous of acquiring ASSIGNOR's entire right, title, and interest in and to and resulting from said Assigned Property and in general all property rights included therein;

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, ASSIGNOR does hereby irrevocably and unconditionally assign and transfer unto ASSIGNEE ASSIGNOR's entire right, title and interest in and to and resulting from the Assigned Property, and hereby authorizes and requests the Commissioner of Patents to issue said patent to ASSIGNEE for the sole use and benefit of ASSIGNEE; ASSIGNEE hereby accepts such transfer and assignment;

AND ASSIGNOR FURTHERMORE authorizes ASSIGNEE, or anyone it may properly designate, to insert on each page of this instrument (where indicated) the filing date and application number of said Application when known;

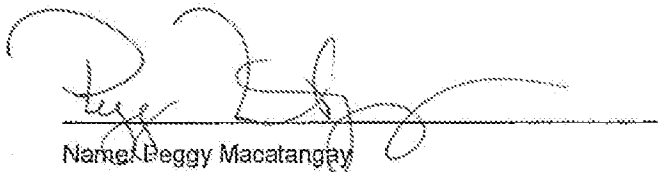
AND ASSIGNOR AGREES, FURTHERMORE, upon request of ASSIGNEE, and without further remuneration, but at no expense to ASSIGNOR, that ASSIGNOR or ASSIGNOR'S heirs, executors, or administrators will provide all reasonable assistance to obtain, maintain, and assert the fullest measure of legal protection that ASSIGNEE desires to obtain or assert for the Assigned Property, including executing any and all papers desired by ASSIGNEE for the filing and granting of patent rights in the Assigned Property, the perfecting of title in ASSIGNEE, and in enforcing any rights in the Assigned Property.

This instrument is executed by, and shall be binding upon ASSIGNOR, and ASSIGNOR's heirs, executors and administrators, for the uses and purposes above set forth and referred to and shall inure to the benefit of ASSIGNEE or anyone it may properly designate.

If any provision of this assignment is held by any court to be unenforceable, such provision shall be interpreted to accomplish the objectives of the original provision to the fullest extent allowed by law and the remainder of this assignment shall remain in full force and effect.

This assignment shall be construed, governed, interpreted and applied in accordance with the laws of the State of Texas, United States of America.

EXECUTED on behalf of ASSIGNEE and effective as of the latest date of the ASSIGNOR signature(s) below:

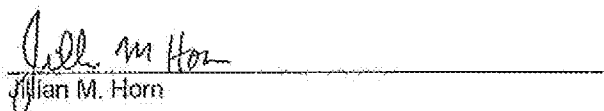


Name: Peggy Macatangay

Title: Director of Engineering and Technology

TPC Group LLC

EXECUTED as of the date(s) set forth below on behalf of the ASSIGNOR:



Julian M. Horn

Date: 3 JAN 2018