

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT4318311

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
THU LIENG	12/12/2016
DARYL ERWIN JOHNSON	03/09/2017
TODD ROPER	12/12/2016
CHAD CANNAN	12/05/2016
RECEIVING PARTY DATA	
Name:	CARBO CERAMICS, INC.
Street Address:	575 N. DAIRY ASHFORD RD.
Internal Address:	SUITE 300
City:	HOUSTON
State/Country:	TEXAS
Postal Code:	77079
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	15080206
CORRESPONDENCE DATA	
Fax Number:	(713)623-4846
<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:	713-623-4844
Email:	CRouly@pattersonsheridan.com, PSDocketing@pattersonsheridan.com
Correspondent Name:	PATTERSON & SHERIDAN, LLP
Address Line 1:	24 GREENWAY PLAZA, SUITE 1600
Address Line 4:	HOUSTON, TEXAS 77046
ATTORNEY DOCKET NUMBER:	CARBO0007US
NAME OF SUBMITTER:	B. TODD PATTERSON
SIGNATURE:	/B. Todd Patterson/
DATE SIGNED:	03/14/2017
Total Attachments: 6	
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ASSIGNMENT FOR APPLICATION FOR PATENT

WHEREAS:

Names and Addresses of Inventors:

1)	Thu LIENG 20926 Flower Croft Court Richmond, Texas 77407	2)	Daryl Erwin JOHNSON 13010 Mossy Bark Lane Houston, Texas 77041
3)	Todd ROPER 24219 Chesterton Court Katy, Texas 77494	4)	Chad CANNAN 15200 Memorial Drive, #3008 Houston, Texas 77079

(hereinafter referred to as Assignors), have invented a certain invention entitled:

**METHODS AND COMPOSITIONS FOR USE OF PROPPANT SURFACE CHEMISTRY
AND INTERNAL POROSITY TO CONSOLIDATE PROPPANT PARTICULATES**

for which application for Letters Patent in the United States was filed on March 24, 2016, under Serial No. 15/080,206, executed on even date herewith; and

WHEREAS, CARBO CERAMICS, INC., having a place of business at 575 N. Dairy Ashford Rd., Suite 300, Houston, Texas 77079 (hereinafter referred to as Assignee), is/are desirous of acquiring the entire right, title and interest in and to said application (hereinafter referred to as Application), and the invention disclosed therein (hereinafter referred to as Invention), and in and to all embodiments of the Invention, heretofore conceived, made or discovered by said Assignors, and in and to any and all patents, inventor's certificates and other forms of protection (hereinafter referred to as Patents) thereon granted in any and all countries and groups of countries.

NOW, THEREFORE, in consideration of good and valuable consideration acknowledged by said Assignors to have been received in full from said Assignee:

1. Said Assignors hereby sell, assign, transfer and convey to Assignee the full and exclusive right, title and interest (a) in and to said Application and said Invention; (b) in and to all rights to apply for patents on said Invention in any and all countries pursuant to the International Convention for the Protection of Industrial Property or otherwise; (c) in and to any and all Applications filed and any and all Patents granted on said Invention in any and all countries and groups of countries, including each and every Application filed and each and every Patent granted on any application which is a conventional, division, substitution, or continuation of said Application; and (d) in and to each and every reissue or extension of any of said Patents.

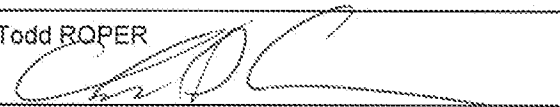
2. Said Assignors hereby covenant and agree to cooperate with said Assignee to enable said Assignee to enjoy to the fullest extent the right, title and interest to said Invention herein conveyed in any and all countries and groups of countries. Such cooperation by said Assignors shall include prompt production of pertinent facts and documents, giving testimony, execution of petitions, oaths, specifications, declarations or other papers, and other assistance all to the extent deemed necessary or desirable by said Assignee (a) for perfecting in said Assignee the right, title and interest herein conveyed; (b) for prosecuting any of said applications; (c) for filing and prosecuting substitute, conventional, divisional, continuing or additional applications covering said Invention; (d) for filing and prosecuting applications for reissuance of any of said Patents; (e) for interference or other priority proceedings involving said Invention; and (f) for legal proceedings involving said Invention and any application therefore and any Patents granted thereon, including without limitation opposition proceedings, cancellation proceedings, priority contests, public use proceedings, infringement actions and court actions; provided, however, that the expense incurred by said Assignors in providing such

cooperation shall be paid for by said Assignee.

3. The term and covenants of this agreement shall inure to the benefit of said Assignee, its successors, assigns and other legal representatives, and shall be binding upon said Assignors, their respective heirs, legal representatives and assigns.

4. Said Assignors hereby warrant and represent that they have not entered and will not enter into any assignment, contract, or understanding in conflict herewith.

IN WITNESS WHEREOF, the said Assignors have executed and delivered this instrument to said Assignee on the dates indicated below.

1)	_____ (DATE)	_____
		Thu LIENG
2)	_____ (DATE)	_____
		Daryl Erwin JOHNSON
2)	_____ (DATE)	_____
		Todd ROPER
2)	<u>12/5/16</u> (DATE)	
		Chad CANNAN

ASSIGNMENT FOR APPLICATION FOR PATENT

WHEREAS:

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the entire right, title and interest in and to said application (hereinafter referred to as Application), and
the invention disclosed therein (hereinafter referred to as Invention), and in and to all embodiments of
the Invention, heretofore conceived, made or discovered by said Assignors, and in and to any and all
patents, inventor's certificates and other forms of protection (hereinafter referred to as Patents)
thereon granted in any and all countries and groups of countries.

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exclusive right, title and interest (a) in and to said Application and said Invention; (b) in and to all
rights to apply for patents on said Invention in any and all countries pursuant to the International
Convention for the Protection of Industrial Property or otherwise; (c) in and to any and all Applications
filed and any and all Patents granted on said Invention in any and all countries and groups of
countries, including each and every Application filed and each and every Patent granted on any
application which is a conventional, division, substitution, or continuation of said Application; and (d)
in and to each and every reissue or extension of any of said Patents.

2. Said Assignors hereby covenant and agree to cooperate with said Assignee to
enable said Assignee to enjoy to the fullest extent the right, title and interest to said Invention herein
conveyed in any and all countries and groups of countries. Such cooperation by said Assignors shall
include prompt production of pertinent facts and documents, giving testimony, execution of petitions,
oaths, specifications, declarations or other papers, and other assistance all to the extent deemed
necessary or desirable by said Assignee (a) for perfecting in said Assignee the right, title and interest
herein conveyed; (b) for prosecuting any of said applications; (c) for filing and prosecuting substitute,
conventional, divisional, continuing or additional applications covering said Invention; (d) for filing and
prosecuting applications for reissuance of any of said Patents; (e) for interference or other priority
proceedings involving said Invention; and (f) for legal proceedings involving said Invention and any
application therefore and any Patents granted thereon, including without limitation opposition
proceedings, cancellation proceedings, priority contests, public use proceedings, infringement actions
and court actions; provided, however, that the expense incurred by said Assignors in providing such

cooperation shall be paid for by said Assignee.

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IN WITNESS WHEREOF, the said Assignors have executed and delivered this instrument to said Assignee on the dates indicated below.

1)	_____ (DATE)	_____ Thu LIENG
2)	<u>3/8/2017</u> (DATE)	<u><i>Daryl Erwin Johnson</i></u> Daryl Erwin JOHNSON
2)	_____ (DATE)	_____ Todd ROPER
2)	_____ (DATE)	_____ Chad CANNAN

ASSIGNMENT FOR APPLICATION FOR PATENT

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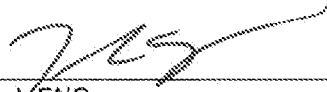
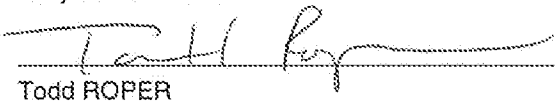
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IN WITNESS WHEREOF, the said Assignors have executed and delivered this instrument to said Assignee on the dates indicated below.

1)	<u>12/12/16</u> (DATE)	 _____ Thu MENG
2)	_____ (DATE)	_____ Daryl Erwin JOHNSON
2)	<u>12/12/2016</u> (DATE)	 _____ Todd ROPER
2)	_____ (DATE)	_____ Chad CANNAN