

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT3687264

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
EMMETT M. PARTAIN	09/01/2010
RUSSELL L. KREEGER	09/08/2010
RECEIVING PARTY DATA	
Name:	UNION CARBIDE CHEMICALS & PLASTICS TECHNOLOGY LLC
Street Address:	2020 DOW CENTER
City:	MIDLAND
State/Country:	MICHIGAN
Postal Code:	48674
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	13811575
CORRESPONDENCE DATA	
Fax Number:	(989)636-3237
<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:	9896331963
Email:	fglmfrr@dow.com
Correspondent Name:	BARB STIEVE
Address Line 1:	2040 DOW CENTER
Address Line 4:	MIDLAND, MICHIGAN 48674
ATTORNEY DOCKET NUMBER:	65629-US-PCT
NAME OF SUBMITTER:	BARB STIEVE
SIGNATURE:	/Barb Stieve/
DATE SIGNED:	01/08/2016
Total Attachments: 5	
source=65629-US-PCT 20160108 Inventors to Union Carbide#page1.tif	
source=65629-US-PCT 20160108 Inventors to Union Carbide#page2.tif	
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source=65629-US-PCT 20160108 Inventors to Union Carbide#page4.tif	
source=65629-US-PCT 20160108 Inventors to Union Carbide#page5.tif	

This Assignment 110 is in the ENGLISH language and has the same meaning in other languages with the same 110 number and RDate.

FORM 110 (R.5.97)

INDIVIDUAL ASSIGNMENT AND INVENTOR'S DECLARATION

(with Priority Rights)

I/we verily believe I am/we are the original, first and sole/joint inventor(s) of the subject matter which is embraced by and for which a patent is sought on the invention entitled: WELLBORE SERVICING FLUID COMPRISING A CELLULOSE ETHER

which invention was made and invented by me/us out of and in the course of my/our employment with my/our respective employers as stated below my/our name(s). I/we acknowledge that I/we hold the invention and all patent and other rights and powers obtainable or exercisable in respect thereof in trust for our respective employers. As trustee(s), and for good and valuable consideration and/or the remuneration received for my/our work, I/we sell, assign and transfer unto:

Union Carbide Chemicals & Plastics Technology LLC
2020 Dow Center
Midland, Michigan 48674
United States of America

a corporation organized and existing under the laws of the State of **Delaware** (hereinafter referred to as the "Assignee"); my/our entire right, title and interest throughout the world, in and to the invention and all rights and powers to make applications, including provisional applications when permitted by law, for Letters Patent in its own name, or in the name of its designee (or nominee(s)); and all rights and powers to file any corresponding or equivalent applications in any and all countries, including all rights to claim priority under all United States domestic laws, International Convention(s) and Treaties in the name of Assignee, and do hereby authorize Assignee or its designee to insert here the Priority Number, Filing Date, and Filing Country

Priority Number	Filing Date	Filing Country
61/373 422	August 13, 2010	United States of America

of the application, on which the claim for priority will be based; and in and to any Letters Patent that may be issued for the invention in any and all countries. I/we do hereby agree to assist Assignee in the prosecution of the application(s) and in any interference, conflict, opposition or litigation which may arise involving the invention or the patent or patents thereon, and to execute for any and all countries any document relating to applications derived from, corresponding to or equivalent to the above identified application as Assignee may request.

I/we authorize Assignee or its designee to translate this Assignment into all languages necessary; and we request that any such Letters Patent be issued to Assignee; and consent to the recordal of this Assignment, or a Notarial True Copy thereof, being under covenant not only that I/we have full power to make the same, but also that such assigned rights are not encumbered by any grant, license, or other right heretofore given.

Subscribed and Declared by me/us:

At: Lower Merioneth, PA
 this 1 day of September, 20 10
 Effective as of August 13, 2010
 Signature: Emmett M. Partain
 Full Name: Emmett M. Partain
 Residence: 267 Park Avenue
 Bound Brook, New Jersey 08805
 Country: United States of America
 Citizenship: United States of America
 P.O. Address: Same as Residence
 Employed By: Union Carbide Chemicals & Plastics
 Technology LLC
 Of Country: United States of America

At: _____
this _____ day of _____, 20 _____
Effective as of August 13, 2010

Signature: _____
Full Name: Russell L. Kreeger
Residence: 4 Cornfield Terrace
Flemington, New Jersey 08822
Country: United States of America
Citizenship: United States of America
P.O. Address: Same as Residence
Employed By: Union Carbide Chemicals & Plastics
Technology LLC
Of Country: United States of America

At: _____
 this _____ day of _____, 20 _____
 Effective as of _____
 Signature: _____
 Full Name: _____
 Residence: _____
 Country: _____
 Citizenship: _____
 P.O. Address: _____
 Employed By: _____
 Of Country: _____

At: _____
 this _____ day of _____, 20 _____
 Effective as of _____
 Signature: _____
 Full Name: _____
 Residence: _____
 Country: _____
 Citizenship: _____
 P.O. Address: _____
 Employed By: _____
 Of Country: _____

☐ Additional names and signatures are attached

I/we verily believe I am/we are the original, first and sole/joint inventor(s) of the subject matter which is embraced by and for which a patent is sought on the invention entitled: **WELLBORE SERVICING FLUID COMPRISING A CELLULOSE ETHER**

Union Carbide Chemicals & Plastics Technology LLC
2020 Dow Center
Midland, Michigan 48674
United States of America

a corporation organized and existing under the laws of the State of **Delaware** (hereinafter referred to as the "Assignee"): my/our entire right, title and interest throughout the world, in and to the invention and all rights and powers to make applications, including provisional applications when permitted by law, for Letters Patent in its own name, or in the name of its designee (or nominee(s)); and all rights and powers to file any corresponding or equivalent applications in any and all countries, including all rights to claim priority under all United States domestic laws, International Convention(s) and Treaties in the name of Assignee, and do hereby authorize Assignee or its designee to insert here the Priority Number, Filing Date, and Filing Country

Priority Number	Filing Date	Filing Country
61/373,422	August 13, 2010	United States of America

I/we authorize Assignee or its designee to translate this Assignment into all languages necessary; and we request that any such Letters Patent be issued to Assignee; and consent to the recording of this Assignment, or a Notarial True Copy thereof, being under covenant not only that I/we have full power to make the same, but also that such assigned rights are not encumbered by any grant, license, or other right heretofore given.

At: _____
this _____ day of _____, 20____
Effective as of August 13, 2010

Signature: _____
Full Name: Emmett M. Partain
Residence: 267 Park Avenue
Bound Brook, New Jersey 08805
Country: United States of America
Citizenship: United States of America
P.O. Address: Same as Residence
Employed By: Union Carbide Chemicals & Plastics
Technology LLC
Of Country: United States of America

At: Sun National Bank 224 S. Main St Flemington N.J.
this 8 day of September, 2010
Effective as of August 13, 2010
Signature: Russell L. Kreeger
Full Name: Russell L. Kreeger
Residence: 4 Cornfield Terrace
Flemington, New Jersey 08822
Country: United States of America
Citizenship: United States of America
P.O. Address: Same as Residence
Employed By: Union Carbide Chemicals & Plastics
Technology LLC
Of Country: United States of America

At: _____
 this _____ day of _____, 20____
 Effective as of _____
 Signature: _____
 Full Name: _____
 Residence: _____
 Country: _____
 Citizenship: _____
 P.O. Address: _____
 Employed By: _____
 Of Country: _____

At: _____
 this _____ day of _____, 20____
 Effective as of _____
 Signature: _____
 Full Name: _____
 Residence: _____
 Country: _____
 Citizenship: _____
 P.O. Address: _____
 Employed By: _____
 Of Country: _____

() Additional names and signatures are attached.

This Assignment 220 is in the ENGLISH language and has the same meaning in other languages with the same 220 number and R/Date.

This Assignment 220 is in the ENGLISH language and has the same meaning in other languages with the same 220 number and R/Date.

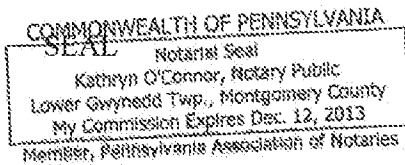
FORM 220

NOTARIAL CERTIFICATE (Individual)

UNITED STATES OF AMERICA)
 STATE OF) SS
 County/Parish of)

On this 1 day of September, 20 10, personally appeared before me,
 Emmett M. Partain

known or identified to me to be the individual described in and who executed the foregoing document
 and acknowledged the same as a free act and deed for uses and purposes therein expressed.



Kathryn O'Connor

NOTARIAL CERTIFICATE (Individual)

UNITED STATES OF AMERICA)
 STATE OF) SS
 County/Parish of)

On this _____ day of _____, 20____, personally appeared before me,
 Russell L. Kreeger

known or identified to me to be the individual described in and who executed the foregoing document
 and acknowledged the same as a free act and deed for uses and purposes therein expressed.

SEAL

This Assignment 220 is in the ENGLISH language and has the same meaning in other languages with the same 220 number and R/Date

NOTARIAL CERTIFICATE (Individual)

UNITED STATES OF AMERICA)
STATE OF) SS
County/Parish of)

On this _____ day of _____, 20____, personally appeared before me,
Emmett M. Partain

known or identified to me to be the individual described in and who executed the foregoing document and acknowledged the same as a free act and deed for uses and purposes therein expressed.

SEAL

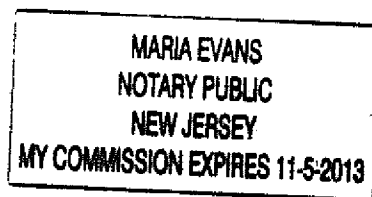
NOTARIAL CERTIFICATE (Individual)

UNITED STATES OF AMERICA)
STATE OF) SS
County/Parish of)

On this 8 day of September, 20 10, personally appeared before me,
Russell L. Kreeger

known or identified to me to be the individual described in and who executed the foregoing document and acknowledged the same as a free act and deed for uses and purposes therein expressed.

SEAL



ASSIGNEE ACCEPTANCE

WE, the ASSIGNEE: **UNION CARBIDE CHEMICALS & PLASTICS TECHNOLOGY LLC**
2020 Dow Center
Midland, Michigan 48674
United States of America

hereby accept the ASSIGNMENT attached hereto which is dated: **September 1, 2010 / September 8, 2010**

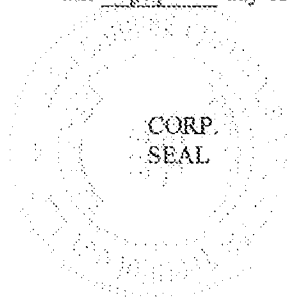
From, the ASSIGNOR: Emmet M. Partain, 267 Park Avenue, Bound Brook, New Jersey 08805, United States of America, Citizen of United States of America and Russell L. Kreeger, 4 Cornfield Terrace, Flemington, New Jersey 08822, United States of America, Citizen of United States of America

of the invention entitled:

WELLBORE SERVICING FLUID COMPRISING A CELLULOSE ETHER

without any restrictions and with all rights and obligations deriving therefrom and declare that this confirmation of acceptance shall be deemed a part of the said ASSIGNMENT.

Signed at Midland, Michigan 48674, USA
this 21 day of October, 20 10



UNION CARBIDE CHEMICALS & PLASTICS TECHNOLOGY LLC

By: Charles J. Maurer III
CHARLES J. MAURER III
SECRETARY

NOTARIAL CERTIFICATE (Corporation)

UNITED STATES OF AMERICA)
STATE OF Michigan) SS
County/Parish of Midland)

On this 21 day of October, 20 10, personally appeared before me, **CHARLES J. MAURER III, Secretary** known or identified to me to be the individual described in and who executed the foregoing document and acknowledged the same as a free act and deed for uses and purposes therein expressed by authority of the said Corporation incorporated under the laws of the **State of Delaware, United States of America**.

I further certify that said authority, dated **December 31, 2007**, is based on

Authorization Policy of said Limited Liability Company

which I have seen, appointing the said individual with full power to sign the foregoing document on behalf of the said corporation and that the purposes for which said document is granted are within the scope of the objects or activities of said corporation.

Jane M. Netzel
SEAL

Jane M. Netzel
NOTARY PUBLIC, MID COUNTY, MICHIGAN
NOTARY PUBLIC, MID COUNTY, MICHIGAN
MY COMMISSION EXPIRES SEPTEMBER 28, 2015

PATENT