

<b>PATENT ASSIGNMENT COVER SHEET</b>
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Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT4729602

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
AARON W. SANDERS	12/15/2011
SAYEED ABBAS	12/15/2011
SHAWN J. MAYNARD	12/15/2011
MATTHEW D. MILLER	12/15/2011
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	DOW GLOBAL TECHNOLOGIES LLC
<b>Street Address:</b>	2040 DOW CENTER
<b>City:</b>	MIDLAND
<b>State/Country:</b>	MICHIGAN
<b>Postal Code:</b>	48674
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	15136289
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(612)659-9344
<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>	
<b>Phone:</b>	6126599340
<b>Email:</b>	Dow.Docketing@bipl.net
<b>Correspondent Name:</b>	BROOKS, CAMERON & HUEBSCH, PLLC
<b>Address Line 1:</b>	1201 MARQUETTE AVENUE SOUTH
<b>Address Line 2:</b>	SUITE 400
<b>Address Line 4:</b>	MINNEAPOLIS, MINNESOTA 55403
<b>ATTORNEY DOCKET NUMBER:</b>	71499-US-DIV
<b>NAME OF SUBMITTER:</b>	ALEXANDER MARQUARDT
<b>SIGNATURE:</b>	/Alexander Marquardt/
<b>DATE SIGNED:</b>	12/12/2017
<b>Total Attachments: 2</b>	
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source=00591192#page2.tif	

**TRUE COPY**

TO ALL TO WHOM THESE PRESENTS SHALL COME,

I Do Hereby Certify that the annexed document(s) are TRUE COPIES of the original document(s) which I have compared. The original document(s) contains the authentic signature(s) from the inventor(s).

at Midland, Michigan 48674, USA

this 5 day of March 20 14



**Amy Lanphier  
Office Professional  
THE DOW CHEMICAL COMPANY**

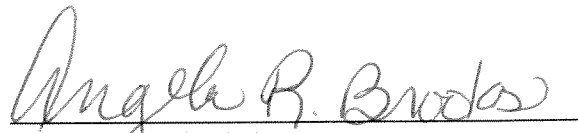
**NOTARIAL CERTIFICATE**

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

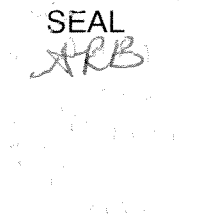
On this 5 day of March 20 14, personally appeared before me,

**Amy Lanphier**

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



Notary Public **Angela R Brooks**  
**NOTARY PUBLIC, STATE OF MICHIGAN  
COUNTY OF MIDLAND  
MY COMMISSION EXPIRES APRIL 6, 2019**



110 - Assignment This Assignment 110 is in the ENGLISH language and has the same meaning in other languages with the same 110 number and R/Date.

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: **NONIONIC SURFACTANTS FOR ENHANCED CRUDE OIL RECOVERY**

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:

**Dow Global Technologies LLC**  
2040 Dow Center  
Midland, Michigan 48674  
United States of America

a limited liability company 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
61/539,795	September 27, 2011	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: <u>Freeport, Texas 77541 USA</u> this <u>15</u> day of <u>December</u> , 20 <u>11</u> Effective as of September 27, 2011 Signature: <u>[Signature]</u> Full Name: <u>Aaron W. Sanders</u> Residence: <u>3503 Corbett Court</u> <u>Missouri City, Texas 77459</u> Country: <u>United States of America</u> Citizenship: <u>United States of America</u> P.O. Address: <u>Same as residence</u> Employed By: <u>The Dow Chemical Company</u> Of Country: <u>United States of America</u>
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At: <u>Freeport, Texas 77541 USA</u> this <u>15</u> day of <u>December</u> , 20 <u>11</u> Effective as of September 27, 2011 Signature: <u>[Signature]</u> Full Name: <u>Sayeed Abbas</u> Residence: <u>1100 East Adoue Street #203</u> <u>Alvin, Texas 77511</u> Country: <u>United States of America</u> Citizenship: <u>India</u> P.O. Address: <u>Same as residence</u> Employed By: <u>The Dow Chemical Company</u> Of Country: <u>United States of America</u>
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At: <u>Freeport, Texas 77541 USA</u> this <u>15</u> day of <u>December</u> , 20 <u>11</u> Effective as of September 27, 2011 Signature: <u>[Signature]</u> Full Name: <u>Shawn J. Maynard</u> Residence: <u>3 Lazybrook Street</u> <u>Angleton, Texas 77515</u> Country: <u>United States of America</u> Citizenship: <u>United States of America</u> P.O. Address: <u>Same as residence</u> Employed By: <u>The Dow Chemical Company</u> Of Country: <u>United States of America</u>
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At: <u>Freeport, Texas 77541 USA</u> this <u>15</u> day of <u>December</u> , 20 <u>11</u> Effective as of September 27, 2011 Signature: <u>[Signature]</u> Full Name: <u>Matthew D. Miller</u> Residence: <u>209 Pansy Path</u> <u>Lake Jackson, Texas 77566</u> Country: <u>United States of America</u> Citizenship: <u>United States of America</u> P.O. Address: <u>Same as residence</u> Employed By: <u>The Dow Chemical Company</u> Of Country: <u>United States of America</u>
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( ) Additional names and signatures are attached.