

## PATENT ASSIGNMENT

Electronic Version v1.1  
 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT														
NATURE OF CONVEYANCE:	ASSIGNMENT														
CONVEYING PARTY DATA															
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Wanglin Yu</td> <td>08/26/2009</td> </tr> <tr> <td>Cynthia L. Rand</td> <td>08/18/2009</td> </tr> <tr> <td>Edward D. Daus</td> <td>08/31/2009</td> </tr> <tr> <td>Yang Cheng</td> <td>08/19/2009</td> </tr> <tr> <td>Irina V. Graf</td> <td>08/06/2009</td> </tr> <tr> <td>Kari S. Phillipson</td> <td>08/18/2009</td> </tr> </tbody> </table>		Name	Execution Date	Wanglin Yu	08/26/2009	Cynthia L. Rand	08/18/2009	Edward D. Daus	08/31/2009	Yang Cheng	08/19/2009	Irina V. Graf	08/06/2009	Kari S. Phillipson	08/18/2009
Name	Execution Date														
Wanglin Yu	08/26/2009														
Cynthia L. Rand	08/18/2009														
Edward D. Daus	08/31/2009														
Yang Cheng	08/19/2009														
Irina V. Graf	08/06/2009														
Kari S. Phillipson	08/18/2009														
RECEIVING PARTY DATA															
<table border="1"> <tr> <td>Name:</td> <td>Dow Global Technologies LLC</td> </tr> <tr> <td>Street Address:</td> <td>2040 Dow Center</td> </tr> <tr> <td>City:</td> <td>Midland</td> </tr> <tr> <td>State/Country:</td> <td>MICHIGAN</td> </tr> <tr> <td>Postal Code:</td> <td>48674</td> </tr> </table>		Name:	Dow Global Technologies LLC	Street Address:	2040 Dow Center	City:	Midland	State/Country:	MICHIGAN	Postal Code:	48674				
Name:	Dow Global Technologies LLC														
Street Address:	2040 Dow Center														
City:	Midland														
State/Country:	MICHIGAN														
Postal Code:	48674														
PROPERTY NUMBERS Total: 1															
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>12827165</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	12827165										
Property Type	Number														
Application Number:	12827165														
CORRESPONDENCE DATA															
Fax Number: 9896363237 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i> Phone: 9896360618 Email: roedel@dow.com Correspondent Name: Matthew Roedel Address Line 1: 2040 Dow Center Address Line 4: Midland, MICHIGAN 48674															
ATTORNEY DOCKET NUMBER:	68693-US-NP														
NAME OF SUBMITTER:	Matthew Roedel														

CH \$40.00 12827165

**Total Attachments: 8**

source=68693-US-NP 20121003 RMS Inventors to DGTL#page1.tif  
source=68693-US-NP 20121003 RMS Inventors to DGTL#page2.tif  
source=68693-US-NP 20121003 RMS Inventors to DGTL#page3.tif  
source=68693-US-NP 20121003 RMS Inventors to DGTL#page4.tif  
source=68693-US-NP 20121003 RMS Inventors to DGTL#page5.tif  
source=68693-US-NP 20121003 RMS Inventors to DGTL#page6.tif  
source=68693-US-NP 20121003 RMS Inventors to DGTL#page7.tif  
source=68693-US-NP 20121003 RMS Inventors to DGTL#page8.tif

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

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: SULFONATE SURFACTANTS AND METHODS OF PREPARATION AND USE

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 Inc.  
2040 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
61/226,109	July 16, 2009	United States of America

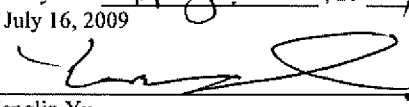
of the application, on which the claim for priority will be based; and in and to any Letters Patent that may be issued for the invention in any and all countries. I/we do hereby agree to assist Assignee in the prosecution of the application(s) and in any interference, conflict, opposition or litigation 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; and I/we do hereby authorize Assignee or its designee (or nominee(s)) to insert here any corresponding equivalent Application Number, Filing Date, and Filing Country

Application Number	Filing Date	Filing Country

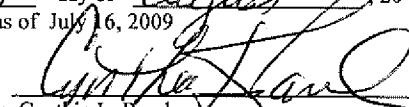
to the above Priority application of any country where that country's patent property must be identified and entered hereinabove for recordal of this Assignment. I/we authorize Assignee or its designee to translate this Assignment into all languages necessary; and we request that any such Letters Patent 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:

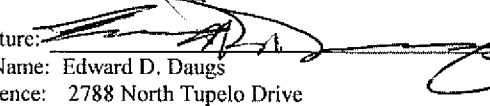
At: Midland, Michigan 48674, USA  
this 26th day of Aug., 20 09  
Effective as of July 16, 2009

Signature:   
Full Name: Wanglin Yu  
Residence: 1608 Settlers Passage  
Midland, Michigan 48642  
Country: United States of America  
Citizenship: People's Republic of China  
P.O. Address: Same as residence  
Employed By: The Dow Chemical Company  
Of Country: United States of America

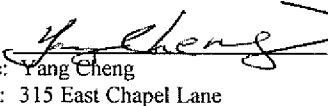
At: Midland, Michigan 48674, USA  
this 18th day of August, 20 09  
Effective as of July 16, 2009

Signature:   
Full Name: Cynthia L. Rand  
Residence: 230 Barden Road  
Sanford, Michigan 48657  
Country: United States of America  
Citizenship: United States of America  
P.O. Address: Same as residence  
Employed By: The Dow Chemical Company  
Of Country: United States of America

At: Midland, Michigan 48674, USA  
this 31 day of Nov, 20 09  
Effective as of July 16, 2009

Signature:   
Full Name: Edward D. Daus  
Residence: 2788 North Tupelo Drive  
Midland, Michigan 48642  
Country: United States of America  
Citizenship: United States of America  
P.O. Address: Same as residence  
Employed By: The Dow Chemical Company  
Of Country: United States of America

At: Midland, Michigan 48674, USA  
this 19th day of August, 20 09  
Effective as of July 16, 2009

Signature:   
Full Name: Yang Cheng  
Residence: 315 East Chapel Lane  
Midland, Michigan 48642  
Country: United States of America  
Citizenship: United States of America  
P.O. Address: Same as residence  
Employed By: The Dow Chemical Company  
Of Country: United States of America

(X) Additional names and signatures are attached.

At: Midland Freeport, Texas 77541, USA  
 this 6 day of August, 20 09  
 Effective as of July 16, 2009

Signature: Irina V. Graf  
 Full Name: Irina V. Graf  
 Residence: 125 Juniper Street  
               Lamesa, Texas 77566 Lake Jackson  
 Country: United States of America  
 Citizenship: United States of America IG  
 P.O. Address: Same as residence  
 Employed By: The Dow Chemical Company  
 Of Country: United States of America

At: Midland, Michigan 48674, USA  
 this 19 day of August, 20 09  
 Effective as of July 16, 2009

Signature: Kari S. Phillipson  
 Full Name: Kari S. Phillipson  
 Residence: 1103 Raucholz  
               Hemlock, Michigan 48626  
 Country: United States of America  
 Citizenship: United States of America  
 P.O. Address: Same as residence  
 Employed By: The Dow Chemical Company  
 Of Country: United States of America

At: \_\_\_\_\_  
 this \_\_\_\_\_ day of \_\_\_\_\_, 20 \_\_\_\_\_

Signature: \_\_\_\_\_  
 Full Name: \_\_\_\_\_  
 Residence: \_\_\_\_\_

Country: \_\_\_\_\_  
 Citizenship: \_\_\_\_\_  
 P.O. Address: \_\_\_\_\_  
 Employed By: \_\_\_\_\_  
 Of Country: \_\_\_\_\_

At: \_\_\_\_\_  
 this \_\_\_\_\_ day of \_\_\_\_\_, 20 \_\_\_\_\_

Signature: \_\_\_\_\_  
 Full Name: \_\_\_\_\_  
 Residence: \_\_\_\_\_

Country: \_\_\_\_\_  
 Citizenship: \_\_\_\_\_  
 P.O. Address: \_\_\_\_\_  
 Employed By: \_\_\_\_\_  
 Of Country: \_\_\_\_\_

At: \_\_\_\_\_  
 this \_\_\_\_\_ day of \_\_\_\_\_, 20 \_\_\_\_\_

Signature: \_\_\_\_\_  
 Full Name: \_\_\_\_\_  
 Residence: \_\_\_\_\_

Country: \_\_\_\_\_  
 Citizenship: \_\_\_\_\_  
 P.O. Address: \_\_\_\_\_  
 Employed By: \_\_\_\_\_  
 Of Country: \_\_\_\_\_

At: \_\_\_\_\_  
 this \_\_\_\_\_ day of \_\_\_\_\_, 20 \_\_\_\_\_

Signature: \_\_\_\_\_  
 Full Name: \_\_\_\_\_  
 Residence: \_\_\_\_\_

Country: \_\_\_\_\_  
 Citizenship: \_\_\_\_\_  
 P.O. Address: \_\_\_\_\_  
 Employed By: \_\_\_\_\_  
 Of Country: \_\_\_\_\_

At: \_\_\_\_\_  
 this \_\_\_\_\_ day of \_\_\_\_\_, 20 \_\_\_\_\_

Signature: \_\_\_\_\_  
 Full Name: \_\_\_\_\_  
 Residence: \_\_\_\_\_

Country: \_\_\_\_\_  
 Citizenship: \_\_\_\_\_  
 P.O. Address: \_\_\_\_\_  
 Employed By: \_\_\_\_\_  
 Of Country: \_\_\_\_\_

At: \_\_\_\_\_  
 this \_\_\_\_\_ day of \_\_\_\_\_, 20 \_\_\_\_\_

Signature: \_\_\_\_\_  
 Full Name: \_\_\_\_\_  
 Residence: \_\_\_\_\_

Country: \_\_\_\_\_  
 Citizenship: \_\_\_\_\_  
 P.O. Address: \_\_\_\_\_  
 Employed By: \_\_\_\_\_  
 Of Country: \_\_\_\_\_

At: \_\_\_\_\_  
 this \_\_\_\_\_ day of \_\_\_\_\_, 20 \_\_\_\_\_

Signature: \_\_\_\_\_  
 Full Name: \_\_\_\_\_  
 Residence: \_\_\_\_\_

Country: \_\_\_\_\_  
 Citizenship: \_\_\_\_\_  
 P.O. Address: \_\_\_\_\_  
 Employed By: \_\_\_\_\_  
 Of Country: \_\_\_\_\_

At: \_\_\_\_\_  
 this \_\_\_\_\_ day of \_\_\_\_\_, 20 \_\_\_\_\_

Signature: \_\_\_\_\_  
 Full Name: \_\_\_\_\_  
 Residence: \_\_\_\_\_

Country: \_\_\_\_\_  
 Citizenship: \_\_\_\_\_  
 P.O. Address: \_\_\_\_\_  
 Employed By: \_\_\_\_\_  
 Of Country: \_\_\_\_\_

**PATENT**

[illegible]

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

REEL: 029067 FRAME: 0154

## NOTARIAL CERTIFICATE (Individual)

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

On this 19 day of August, 2009, personally appeared before me,  
 Yang Cheng

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

Brenda J. Maida  
 BRENDA J. MAIDA  
 NOTARY PUBLIC, STATE OF MI  
 COUNTY OF GLADWIN  
 MY COMMISSION EXPIRES May 10, 2012  
 ACTING IN THE COUNTY OF MIDLAND

## NOTARIAL CERTIFICATE (Individual)

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

On this 16 day of August, 2009, personally appeared before me,  
 Irina V. Graf

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

ARB

Angela R. Brooks  
 ANGELA R. BROOKS  
 NOTARY PUBLIC, MIDLAND COUNTY, MI  
 MY COMMISSION EXPIRES: APRIL 6, 2013

## NOTARIAL CERTIFICATE (Individual)

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

On this 18 day of August, 2009, personally appeared before me,  
 Kari S. Phillipson

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

Brenda J. Maida  
 BRENDA J. MAIDA  
 NOTARY PUBLIC, STATE OF MI  
 COUNTY OF GLADWIN  
 MY COMMISSION EXPIRES May 10, 2012  
 ACTING IN THE COUNTY OF MIDLAND

# Delaware

PAGE 2

*The First State*

I, JEFFREY W. BULLOCK, SECRETARY OF STATE OF THE STATE OF DELAWARE DO HEREBY CERTIFY THAT THE ATTACHED IS A TRUE AND CORRECT COPY OF CERTIFICATE OF FORMATION OF "DOW GLOBAL TECHNOLOGIES LLC" FILED IN THIS OFFICE ON THE TWENTY-THIRD DAY OF DECEMBER, A.D. 2010, AT 10:40 O'CLOCK A.M.

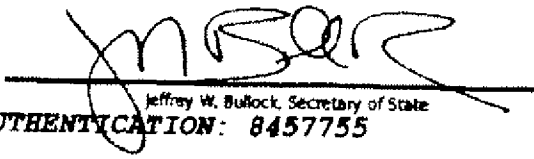
AND I DO HEREBY FURTHER CERTIFY THAT THE EFFECTIVE DATE OF THE AFORESAID CERTIFICATE OF FORMATION IS THE THIRTY-FIRST DAY OF DECEMBER, A.D. 2010.

2332072 8100V

101227862

You may verify this certificate online  
at [corp.delaware.gov/authver.shtml](http://corp.delaware.gov/authver.shtml)



  
Jeffrey W. Bullock, Secretary of State  
AUTHENTICATION: 8457755

DATE: 12-29-10

PATENT  
REEL: 029067 FRAME: 0156

State of Delaware  
Secretary of State  
Division of Corporations  
Delivered 10:40 AM 12/23/2010  
FILED 10:40 AM 12/23/2010  
SRV 101227862 - 2332072 FILE

**Certificate of Formation  
of  
Dow Global Technologies LLC**

This Certificate of Formation of Dow Global Technologies LLC has been duly executed and is being filed by Noreen D. Warrick, as an authorized representative, to form a limited liability company under the Delaware Limited Liability Company Act (6 Del.C. §18-101, et seq.).

1. The name of the limited liability company is:

Dow Global Technologies LLC

2. The address of the limited liability company's registered office in the State of Delaware is Corporation Trust Center, 1209 Orange Street, in the City of Wilmington, County of New Castle. The name of the limited liability company's registered agent for service of process in the State of Delaware at such address is the Corporation Trust Company.
3. The effective date for the formation of this limited liability company is December 31, 2010.

IN WITNESS WHEREOF, the undersigned has executed this Certificate of Formation of Dow Global Technologies LLC this 23<sup>rd</sup> day of December, 2010.



Noreen D. Warrick  
Authorized Representative



# Delaware

PAGE 1

*The First State*

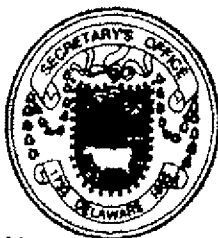
I, JEFFREY W. BULLOCK, SECRETARY OF STATE OF THE STATE OF DELAWARE DO HEREBY CERTIFY THAT THE ATTACHED IS A TRUE AND CORRECT COPY OF THE CERTIFICATE OF CONVERSION OF A DELAWARE CORPORATION UNDER THE NAME OF "DOW GLOBAL TECHNOLOGIES INC." TO A DELAWARE LIMITED LIABILITY COMPANY, CHANGING ITS NAME FROM "DOW GLOBAL TECHNOLOGIES INC." TO "DOW GLOBAL TECHNOLOGIES LLC", FILED IN THIS OFFICE ON THE TWENTY-THIRD DAY OF DECEMBER, A.D. 2010, AT 10:40 O'CLOCK A.M.

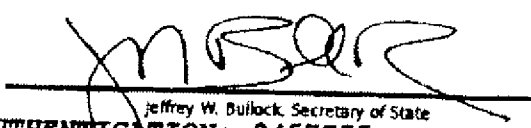
AND I DO HEREBY FURTHER CERTIFY THAT THE EFFECTIVE DATE OF THE AFORESAID CERTIFICATE OF CONVERSION IS THE THIRTY-FIRST DAY OF DECEMBER, A.D. 2010.

2332072 8100V

101227862

You may verify this certificate online  
at [corp.delaware.gov/authver.shtml](http://corp.delaware.gov/authver.shtml)



  
jeffrey W. Bullock, Secretary of State  
AUTHENTICATION: 8457755

DATE: 12-29-10

PATENT  
REEL: 029067 FRAME: 0158

State of Delaware  
Secretary of State  
Division of Corporations  
Delivered 10:40 AM 12/23/2010  
FILED 10:40 AM 12/23/2010  
SRV 101227862 - 2332072 FILE

Certificate of Conversion  
of  
Dow Global Technologies Inc.  
(a Delaware corporation)  
to  
Dow Global Technologies LLC  
(a Delaware limited liability company)

Pursuant to Section 18-214 of the Limited Liability Company Act

Dow Global Technologies Inc., a Delaware corporation (the "Corporation"), files this Certificate of Conversion (the "Certificate") and hereby certifies the following:

1. The jurisdiction where the Corporation was first formed is Delaware.
2. The jurisdiction immediately prior to filing this Certificate is Delaware.
3. The date the Corporation was first formed is April 6, 1993.
4. The name of the Corporation immediately prior to filing this Certificate is Dow Global Technologies Inc.
5. The name of the limited liability company as set forth in the Certificate of Formation is Dow Global Technologies LLC.
6. The future effective date of the conversion to a limited liability company is December 31, 2010.

IN WITNESS WHEREOF, the undersigned has executed this Certificate on the 23<sup>rd</sup> day of December, 2010.

Dow Global Technologies Inc.

By: Noreen D. Warrick  
Name: Noreen D. Warrick  
Title: Secretary