

## PATENT ASSIGNMENT

Electronic Version v1.1  
 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
Union Carbide Chemicals & Plastics Technology Corporation	10/30/2007
RECEIVING PARTY DATA	
Name:	Dow Global Technologies LLC
Street Address:	2040 Dow Center
City:	Midland
State/Country:	MICHIGAN
Postal Code:	48674
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	12446529
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:	64741A-US-PCT
NAME OF SUBMITTER:	Matthew Roedel
Total Attachments: 11 source=64741A-US-PCT 20130116 PDH Union Carbide to DGTL#page1.tif source=64741A-US-PCT 20130116 PDH Union Carbide to DGTL#page2.tif source=64741A-US-PCT 20130116 PDH Union Carbide to DGTL#page3.tif source=64741A-US-PCT 20130116 PDH Union Carbide to DGTL#page4.tif source=64741A-US-PCT 20130116 PDH Union Carbide to DGTL#page5.tif	

CH \$40.00 12446529

source=64741A-US-PCT 20130116 PDH Union Carbide to DGTL#page6.tif  
source=64741A-US-PCT 20130116 PDH Union Carbide to DGTL#page7.tif  
source=64741A-US-PCT 20130116 PDH Union Carbide to DGTL#page8.tif  
source=64741A-US-PCT 20130116 PDH Union Carbide to DGTL#page9.tif  
source=64741A-US-PCT 20130116 PDH Union Carbide to DGTL#page10.tif  
source=64741A-US-PCT 20130116 PDH Union Carbide to DGTL#page11.tif

This Assignment 440 is in the ENGLISH language and has the same meaning in other languages with the same 440 number.

This Assignment 440 is in the ENGLISH language and has the same meaning in other languages with the same 440 number.

FORM 440

# ASSIGNMENT

(with Priority Rights)  
and  
INVENTORSHIP DECLARATION

We, ASSIGNOR, of: **UNION CARBIDE CHEMICALS & PLASTICS TECHNOLOGY CORPORATION**  
**2020 Dow Center**  
**Midland, Michigan 48674**  
**UNITED STATES OF AMERICA**

a corporation organized and existing under the laws of the State of Delaware, United States of America do hereby claim and declare that we hold the invention and all patent and other rights and powers obtainable or exercisable in respect thereof from the sole, true and first inventor(s):

**Madan M. Bhasin, 9 Carriage Road, Charleston, West Virginia 25314; Seyedrazi R. Seyedmonir, 111 Woodbridge Drive, Charleston, West Virginia 25311**

of an invention relating to and entitled:

## METHOD FOR REMOVAL OF MERCURY FROM HYDROCARBON FEEDSTOCKS

We do hereby declare, for good and valuable consideration November 21, 2006  
 received, sell,  
 assign, and transfer unto:

WE, the ASSIGNEE: **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, United States of America our entire right, title and interest throughout the world, in and to the invention and all rights and powers to make application for Letters Patent in its own name, or in the name of its nominee; and all rights and powers to file any reissue, divisional, continuing or substitute application and any corresponding applications in any and all countries, including all rights to claim priority under all International Conventions and Treaties in the name of said Assignee, and do hereby authorize said Assignee to insert here the Priority Number 60/860,288 and Filing Date November 21, 2006 in United States of America

of the application on which the priority will be based; and in and to any Letters Patent that may be issued for said invention in any and all countries; and we do hereby agree to assist said Assignee in the prosecution of the said applications and in any interference, conflict, opposition or litigation which may arise involving said invention or the patent or patents thereon, and to execute any reissue, divisional, continuing or substitute application and assent to their making any applications in other countries corresponding to the above and below specifically identified application, as may be requested by said Assignee; and we do hereby authorize said Assignee to insert here the Corresponding Application No. \_\_\_\_\_ and Filing Date \_\_\_\_\_ in \_\_\_\_\_

of the corresponding application in any country where that patent property must be entered for recordal of this Assignment; and we do hereby authorize and request that any such Letters Patent be issued to said Assignee in accordance herewith, and consent to the recordal of this Assignment being under covenant, not only that 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 Sworn by us at Midland, Michigan 48674, USA

this 30 day of October, 20 07

UNION CARBIDE CHEMICALS & PLASTICS TECHNOLOGY CORPORATION

CORP.  
SEAL

By: Charles J. Maurer III  
**CHARLES J. MAURER III**  
 Secretary

This Notarial Certificate 550 is in the ENGLISH language and has the same meaning in other languages with the same 550 number.

[illegible]

This Assignee Acceptance 660 is in the ENGLISH language and has the same meaning in other languages with the same 660 number.

**REEL: 029636 FRAME: 0337**

[illegible]

This Assignee Acceptance 660 is in the ENGLISH language and has the same meaning in other languages with the same 660 number.

FORM 660

WE, the ASSIGNEE:      **UNION CARBIDE CHEMICALS & PLASTICS  
TECHNOLOGY CORPORATION  
2020 Dow Center  
Midland, Michigan 48674  
UNITED STATES OF AMERICA**

From, the ASSIGNOR: Madan M. Bhasin, 9 Carriage Road, Charleston, West Virginia 25314;  
Seyedrazi R. Seyedmonir, 111 Woodbridge Drive, Charleston, West Virginia 25311

of the invention entitled:

## METHOD FOR REMOVAL OF MERCURY FROM HYDROCARBON FEEDSTOCKS

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, U.S.A.**

this 26 day of October, 2007

**UNION CARBIDE CHEMICALS & PLASTICS  
TECHNOLOGY CORPORATION**

CORP.  
SEAL

Bv:

**CHARLES J. MAURER III**  
Secretary

**NOTARIAL CERTIFICATE (Corporation)**

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

On this 24 day of October, 2007, 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 **September 17, 2001**, is based on  
an authorization **Policy of the said Corporation,**

which I have seen, appointing the said individual **Attorney-in-fact** 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.

SEAL

Notary Public

*Jane M. Neitzel*  
NOTARY PUBLIC, BAY COUNTY, MICHIGAN  
ACTING IN MIDLAND COUNTY, MICHIGAN  
MY COMMISSION EXPIRES SEPTEMBER 2018

## PATENT

[illegible]

This Assignee Acceptance 660 is in the ENGLISH language and has the same meaning in other languages with the same 660 number.

## ASSIGNEE ACCEPTANCE

hereby accept the ASSIGNMENT attached hereto which is dated: March 19, 2007

of the invention entitled:

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.

**DOW GLOBAL TECHNOLOGIES INC.**

By: John B. Treangen  
JOHN B. TREANGEN

# NOTARIAL CERTIFICATE (Corporation)

On this 21<sup>st</sup> day of March, 2007, personally appeared before me, **JOHN B. TREANGEN, Authorized Representative**, 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**.

**A delegation of signature authority of the said Corporation,**

Notary Public

Rebecca Sue RFEI 02

REEL: 029636 FRAME: 0339

This Assignment 440 is in the ENGLISH language and has the same meaning in other languages with the same 440 number.

This Assignment 440 is in the ENGLISH language and has the same meaning in other languages with the same 440 number.

FORM 440

# ASSIGNMENT (with Priority Rights) and INVENTORSHIP DECLARATION

We, ASSIGNOR, of: **UNION CARBIDE CHEMICALS & PLASTICS TECHNOLOGY CORPORATION**  
**2020 Dow Center**  
**Midland, Michigan 48674**  
**UNITED STATES OF AMERICA**

a corporation organized and existing under the laws of the State of Delaware, United States of America do hereby claim and declare that we hold the invention and all patent and other rights and powers obtainable or exercisable in respect thereof from the sole, true and first inventor(s):

**Madan M. Bhasin, 9 Carriage Road, Charleston, West Virginia 25314, United States of America; Seyedrazi R. Seyedmonir, 111 Woodbridge Drive, Charleston, West Virginia 25311, United States of America**

of an invention relating to and entitled:

## METHOD FOR REMOVAL OF MERCURY FROM HYDROCARBON FEEDSTOCKS

We do hereby declare, for good and valuable consideration  
 assign, and transfer unto:

received, sell,

WE, the ASSIGNEE:

**DOW GLOBAL TECHNOLOGIES INC.**  
**Washington Street**  
**1790 Building**  
**Midland, Michigan 48674**  
**UNITED STATES OF AMERICA**

a corporation organized and existing under the laws of the State of Delaware, United States of America our entire right, title and interest throughout the world, in and to the invention and all rights and powers to make application for Letters Patent in its own name, or in the name of its nominee; and all rights and powers to file any reissue, divisional, continuing or substitute application and any corresponding applications in any and all countries, including all rights to claim priority under all International Conventions and Treaties in the name of said Assignee, and do hereby authorize said Assignee to insert here the Priority Number 60/860,288 and Filing Date November 21, 2006 in the United States of America

of the application on which the priority will be based; and in and to any Letters Patent that may be issued for said invention in any and all countries; and we do hereby agree to assist said Assignee in the prosecution of the said applications and in any interference, conflict, opposition or litigation which may arise involving said invention or the patent or patents thereon, and to execute any reissue, divisional, continuing or substitute application and assent to their making any applications in other countries corresponding to the above and below specifically identified application, as may be requested by said Assignee; and we do hereby authorize said Assignee to insert here the

Corresponding Application No. \_\_\_\_\_ and Filing Date \_\_\_\_\_ in \_\_\_\_\_

of the corresponding application in any country where that patent property must be entered for recordal of this Assignment; and we do hereby authorize and request that any such Letters Patent be issued to said Assignee in accordance herewith, and consent to the recordal of this Assignment being under covenant, not only that 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 Sworn by us at Midland, Michigan 48674, USA

this 19 day of March, 20 07

UNION CARBIDE CHEMICALS & PLASTICS TECHNOLOGY CORPORATION

CORP.  
SEAL

By

*Charles J. Maurer III*  
**CHARLES J. MAURER III**  
 Secretary

Attach Notarial Certificate (Corporation)

**PATENT**  
**REEL: 029636 FRAME: 0340**



[illegible]

This Notarial Certificate 550 is in the ENGLISH language and has the same meaning in other languages with the same 550 number.

# 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.

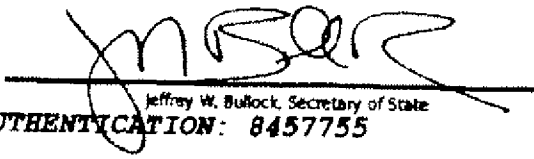
AND I DO HEREBY FURTHER CERTIFY THAT THE EFFECTIVE DATE OF THE AFORESAID CERTIFICATE OF FORMATION IS THE THIRTY-FIRST DAY OF DECEMBER, A.D. 2010.

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: 029636 FRAME: 0342

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*

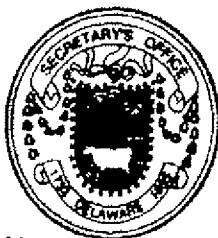
I, JEFFREY W. BULLOCK, SECRETARY OF STATE OF THE STATE OF DELAWARE DO HEREBY CERTIFY THAT THE ATTACHED IS A TRUE AND CORRECT COPY OF THE CERTIFICATE OF CONVERSION OF A DELAWARE CORPORATION UNDER THE NAME OF "DOW GLOBAL TECHNOLOGIES INC." TO A DELAWARE LIMITED LIABILITY COMPANY, CHANGING ITS NAME FROM "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.

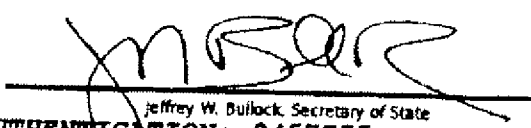
AND I DO HEREBY FURTHER CERTIFY THAT THE EFFECTIVE DATE OF THE AFORESAID CERTIFICATE OF CONVERSION IS THE THIRTY-FIRST DAY OF DECEMBER, A.D. 2010.

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: 029636 FRAME: 0344

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