

## PATENT ASSIGNMENT

Electronic Version v1.1  
 Stylesheet Version v1.1

| SUBMISSION TYPE:   | NEW ASSIGNMENT              |               |                             |                     |                 |                        |            |                 |            |                |            |                  |            |                    |            |                     |            |                  |            |
|--|-----------------------------|---------------|-----------------------------|---------------------|-----------------|------------------------|------------|-----------------|------------|----------------|------------|------------------|------------|--------------------|------------|---------------------|------------|------------------|------------|
| NATURE OF CONVEYANCE:  | ASSIGNMENT                  |               |                             |                     |                 |                        |            |                 |            |                |            |                  |            |                    |            |                     |            |                  |            |
| <b>CONVEYING PARTY DATA</b>  |                             |               |                             |                     |                 |                        |            |                 |            |                |            |                  |            |                    |            |                     |            |                  |            |
| <table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Daryoosh Beigzadeh</td> <td>08/03/2004</td> </tr> <tr> <td>Richard E. Campbell JR</td> <td>07/02/2004</td> </tr> <tr> <td>David D. Devore</td> <td>08/01/2004</td> </tr> <tr> <td>Duane R. Romer</td> <td>08/12/2004</td> </tr> <tr> <td>James C. Stevens</td> <td>07/22/2004</td> </tr> <tr> <td>Francis J. Timmers</td> <td>08/02/2004</td> </tr> <tr> <td>Hendrik E. Tuinstra</td> <td>08/02/2004</td> </tr> <tr> <td>Paul C. Vosejpka</td> <td>08/02/2004</td> </tr> </tbody> </table> |                             | Name          | Execution Date              | Daryoosh Beigzadeh  | 08/03/2004      | Richard E. Campbell JR | 07/02/2004 | David D. Devore | 08/01/2004 | Duane R. Romer | 08/12/2004 | James C. Stevens | 07/22/2004 | Francis J. Timmers | 08/02/2004 | Hendrik E. Tuinstra | 08/02/2004 | Paul C. Vosejpka | 08/02/2004 |
| Name   | Execution Date              |               |                             |                     |                 |                        |            |                 |            |                |            |                  |            |                    |            |                     |            |                  |            |
| Daryoosh Beigzadeh   | 08/03/2004                  |               |                             |                     |                 |                        |            |                 |            |                |            |                  |            |                    |            |                     |            |                  |            |
| Richard E. Campbell JR   | 07/02/2004                  |               |                             |                     |                 |                        |            |                 |            |                |            |                  |            |                    |            |                     |            |                  |            |
| David D. Devore  | 08/01/2004                  |               |                             |                     |                 |                        |            |                 |            |                |            |                  |            |                    |            |                     |            |                  |            |
| Duane R. Romer   | 08/12/2004                  |               |                             |                     |                 |                        |            |                 |            |                |            |                  |            |                    |            |                     |            |                  |            |
| James C. Stevens   | 07/22/2004                  |               |                             |                     |                 |                        |            |                 |            |                |            |                  |            |                    |            |                     |            |                  |            |
| Francis J. Timmers   | 08/02/2004                  |               |                             |                     |                 |                        |            |                 |            |                |            |                  |            |                    |            |                     |            |                  |            |
| Hendrik E. Tuinstra  | 08/02/2004                  |               |                             |                     |                 |                        |            |                 |            |                |            |                  |            |                    |            |                     |            |                  |            |
| Paul C. Vosejpka   | 08/02/2004                  |               |                             |                     |                 |                        |            |                 |            |                |            |                  |            |                    |            |                     |            |                  |            |
| <b>RECEIVING PARTY DATA</b>  |                             |               |                             |                     |                 |                        |            |                 |            |                |            |                  |            |                    |            |                     |            |                  |            |
| <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>13081659</td> </tr> </tbody> </table>  |                             | Property Type | Number                      | Application Number: | 13081659        |                        |            |                 |            |                |            |                  |            |                    |            |                     |            |                  |            |
| Property Type  | Number                      |               |                             |                     |                 |                        |            |                 |            |                |            |                  |            |                    |            |                     |            |                  |            |
| Application Number:  | 13081659                    |               |                             |                     |                 |                        |            |                 |            |                |            |                  |            |                    |            |                     |            |                  |            |
| <b>CORRESPONDENCE DATA</b>   |                             |               |                             |                     |                 |                        |            |                 |            |                |            |                  |            |                    |            |                     |            |                  |            |
| Fax Number:  | 9792387055                  |               |                             |                     |                 |                        |            |                 |            |                |            |                  |            |                    |            |                     |            |                  |            |
| <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>   |                             |               |                             |                     |                 |                        |            |                 |            |                |            |                  |            |                    |            |                     |            |                  |            |
| Phone:   | 979-238-5639                |               |                             |                     |                 |                        |            |                 |            |                |            |                  |            |                    |            |                     |            |                  |            |
| Email:   | schneider4@dow.com          |               |                             |                     |                 |                        |            |                 |            |                |            |                  |            |                    |            |                     |            |                  |            |
| Correspondent Name:  | Carla Schneider             |               |                             |                     |                 |                        |            |                 |            |                |            |                  |            |                    |            |                     |            |                  |            |
| Address Line 1:  | 2301 N. Brazosport Blvd.    |               |                             |                     |                 |                        |            |                 |            |                |            |                  |            |                    |            |                     |            |                  |            |
| Address Line 2:  | B-1463                      |               |                             |                     |                 |                        |            |                 |            |                |            |                  |            |                    |            |                     |            |                  |            |
| Address Line 4:  | Freeport, TEXAS 77541       |               |                             |                     |                 |                        |            |                 |            |                |            |                  |            |                    |            |                     |            |                  |            |

CH \$40.00 13081659

|   |                  |
|---|------------------|
| ATTORNEY DOCKET NUMBER:   | 63796A-US-DIV[3] |
| NAME OF SUBMITTER:  | Carla Schneider  |
| <p>Total Attachments: 12</p> <p>source=63796A-US-DIV[3]_20121113_JAC_Inventor_to_DGTL_Assignments#page1.tif</p> <p>source=63796A-US-DIV[3]_20121113_JAC_Inventor_to_DGTL_Assignments#page2.tif</p> <p>source=63796A-US-DIV[3]_20121113_JAC_Inventor_to_DGTL_Assignments#page3.tif</p> <p>source=63796A-US-DIV[3]_20121113_JAC_Inventor_to_DGTL_Assignments#page4.tif</p> <p>source=63796A-US-DIV[3]_20121113_JAC_Inventor_to_DGTL_Assignments#page5.tif</p> <p>source=63796A-US-DIV[3]_20121113_JAC_Inventor_to_DGTL_Assignments#page6.tif</p> <p>source=63796A-US-DIV[3]_20121113_JAC_Inventor_to_DGTL_Assignments#page7.tif</p> <p>source=63796A-US-DIV[3]_20121113_JAC_Inventor_to_DGTL_Assignments#page8.tif</p> <p>source=63796A-US-DIV[3]_20121113_JAC_Inventor_to_DGTL_Assignments#page9.tif</p> <p>source=63796A-US-DIV[3]_20121113_JAC_Inventor_to_DGTL_Assignments#page10.tif</p> <p>source=63796A-US-DIV[3]_20121113_JAC_Inventor_to_DGTL_Assignments#page11.tif</p> <p>source=63796A-US-DIV[3]_20121113_JAC_Inventor_to_DGTL_Assignments#page12.tif</p> |                  |

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



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

# ASSIGNEE ACCEPTANCE

WE, the ASSIGNEE: **DOW GLOBAL TECHNOLOGIES LLC**  
**2040 Dow Center**  
**Midland, Michigan 48674**

hereby accept the ASSIGNMENT attached hereto which is dated: August 3, 2004; July 2, 2004; August 2, 2004; August 12, 2004; July 22, 2004; August 2, 2004; August 2, 2004; and August 2, 2004, respectively

From, the ASSIGNOR: Daryoosh Beigzadeh, 2804 Scarborough Court, Midland, Michigan 48640, United States of America, Citizen of Canada; Richard E. Campbell, Jr., 5301 Woodview Pass, Midland, Michigan 48642, United States of America, Citizen of United States of America; David D. Devore, 4901 East Shaffer, Midland, Michigan 48642, United States of America, Citizen of United States of America; Duane R. Romer, 4025 Lowell Court, Midland, Michigan 48642, United States of America, Citizen of United States of America; James C. Stevens, 2026 Pecan Trail Drive, Richmond, Texas 77406, United States of America, Citizen of United States of America; Francis J. Timmers, 4605 Lund Drive, Midland, Michigan 48642, United States of America, Citizen of United States of America; Hendrik E. Tuinstra, 5103 Foster Road, Midland, Michigan 48642-3229, United States of America, Citizen of United States of America; and Paul C. Vosejпка, 706 East Chippewa River Road, Midland, Michigan 48640, United States of America, Citizen of United States of America

of the invention entitled:

Technique for Selecting Polymerization Modifiers

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 6 day of November, 20 12

CORP.  
SEAL

**DOW GLOBAL TECHNOLOGIES LLC**

By: Susan M Zerull  
**Susan M. Zerull**  
**Authorized Representative**

## NOTARIAL CERTIFICATE (Corporation)

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

On this 6 day of November, 20 12, personally appeared before me, **Susan M. Zerull, 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 limited liability company under the laws of **Delaware**.

I further certify that said authority, dated June 1, 2012, is based on

A Delegation of Signature Authority

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

SEAL

Kathy Sue Wertz Kathy Sue Wertz  
Notary Public  
NOTARY PUBLIC, MIDLAND COUNTY, MICHIGAN  
MY COMMISSION EXPIRES APRIL 7, 2018





Additional names, addresses and signatures to be attached to Form No. 110  
Entitled: **INDIVIDUAL ASSIGNMENT AND INVENTORS DECLARATION**

At: Freeport, Texas 77541 USA  
this \_\_\_\_\_ day of \_\_\_\_\_ 20\_\_\_\_  
Effective as of June 16, 2004

Signature: \_\_\_\_\_  
Full Name: **James C. Stevens**  
Residence: **2026 Peacan Trail Drive  
Richmond, Texas 77469**  
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 02 day of Aug 2004  
Effective as of June 16, 2004

Signature: Francis J. Timmers  
Full Name: **Francis J. Timmers**  
Residence: **4605 Lund 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 \_\_\_\_\_ day of \_\_\_\_\_ 20\_\_\_\_  
Effective as of June 16, 2004

Signature: Hendrik E. Tuinstra  
Full Name: **Hendrik E. Tuinstra**  
Residence: **5103 Foster Road  
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 02 day of AUG 2004  
Effective as of June 16, 2004

Signature: Paul C. Vosejka  
Full Name: **Paul C. Vosejka**  
Residence: **706 East Chippewa River Road  
Midland, Michigan 48640**  
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: \_\_\_\_\_

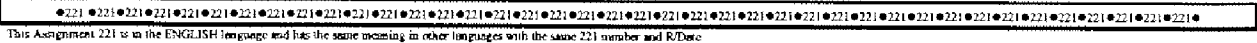












FORM 221

Docket Ref. 63796

### NOTARIAL CERTIFICATE (INDIVIDUAL)

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

On this 2 day of August, 2004, personally appeared before me,

Hendrik E. Tuinstra

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

Notary Public

*Carla S. Samuel*  
Notary Public, Bay County, Michigan  
Acting in Midland County, Michigan  
My Commission Expires October 10, 2005

### NOTARIAL CERTIFICATE (INDIVIDUAL)

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

On this 2 day of August, 2004, personally appeared before me,

Paul C. Vosejpka

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

Notary Public

*Carla S. Samuel*  
Notary Public, Bay County, Michigan  
Acting in Midland County, Michigan  
My Commission Expires October 10, 2005

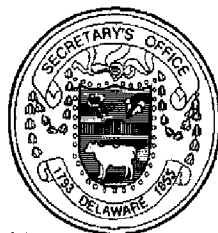
# Delaware

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.

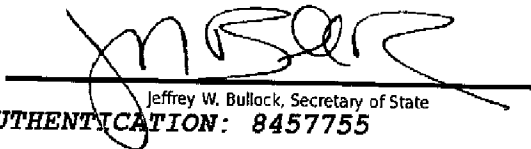
AND I DO HEREBY FURTHER CERTIFY THAT THE EFFECTIVE DATE OF THE AFORESAID CERTIFICATE OF FORMATION IS THE THIRTY-FIRST DAY OF DECEMBER, A.D. 2010.



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: 029288 FRAME: 0556

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  
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.

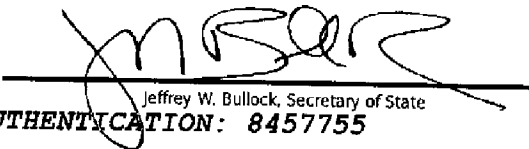
AND I DO HEREBY FURTHER CERTIFY THAT THE EFFECTIVE DATE OF THE AFORESAID CERTIFICATE OF CONVERSION IS THE THIRTY-FIRST DAY OF DECEMBER, A.D. 2010.

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: 029288 FRAME: 0558

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