

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT4656400

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT	
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT	
<b>CONVEYING PARTY DATA</b>		
	<b>Name</b>	<b>Execution Date</b>
	DANIEL J. ARRIOLA	10/07/2005
	EDMUND M. CARNAHAN	10/03/2005
	DAVID D. DEVORE	10/07/2005
	PHILLIP D. HUSTAD	09/29/2005
	BRIAN A. JAZDZEWSKI	10/07/2005
	ROGER L. KUHLMAN	09/27/2005
	FRANCIS J. TIMMERS	10/07/2005
	TIMOTHY T. WENZEL	10/07/2005
<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>	12065867	
<b>CORRESPONDENCE DATA</b>		
<b>Fax Number:</b>	(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>		
<b>Phone:</b>	989-636-7934	
<b>Email:</b>	kswertz@dow.com	
<b>Correspondent Name:</b>	KATHY WERTZ	
<b>Address Line 1:</b>	2040 DOW CENTER	
<b>Address Line 4:</b>	MIDLAND, MICHIGAN 48674	
<b>ATTORNEY DOCKET NUMBER:</b>	64346A-US-PCT	
<b>NAME OF SUBMITTER:</b>	KATHY WERTZ	
<b>SIGNATURE:</b>	/Kathy Wertz/	

<b>DATE SIGNED:</b>	10/25/2017
<b>Total Attachments: 9</b> source=64346 Assignment Inventors to DGTL#page1.tif source=64346 Assignment Inventors to DGTL#page2.tif source=64346 Assignment Inventors to DGTL#page3.tif source=64346 Assignment Inventors to DGTL#page4.tif source=64346 Assignment Inventors to DGTL#page5.tif source=64346 Assignment Inventors to DGTL#page6.tif source=64346 Assignment Inventors to DGTL#page7.tif source=64346 Assignment Inventors to DGTL#page8.tif source=64346 Assignment Inventors to DGTL#page9.tif	

(WITH PRIORITY RIGHTS)

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, by virtue of my/our employee agreement(s) and contractual agreement(s) between our employer(s) and Dow Global Technologies Inc., hold the invention and all patent and other rights and powers obtainable or exercisable in respect thereof in trust for Dow Global Technologies Inc. As trustee(s), and for good and valuable consideration and/or the remuneration received for my/our work from my/our employer, I/we sell, assign and transfer unto:

Washington Street  
1790 Building  
Midland, Michigan 48674  
United States of America

*Filing Date September 15, 2005*

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

*in country*

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:

Effective as of September 15, 2005

Full Name: Daniel J. Arriola  
Residence: 2100 Mier Road  
Midland, Michigan 48642

At: Midland Michigan 49674 USA

Effective 12/15/2009

Of Country: United States of America

Effective as of September 15, 2005

Full Name: Edmund M. Carnahan  
Residence: 4619 Twin Elm Drive  
Fresno, Texas 77545

Of Country: United States of America

Effective as of September 15, 2002

Full Name: Philip D. Mustad  
Residence: 3618 Rose Water Court  
Manvel, Texas 77578

Of Country: United States of America

( X ) Additional names and signatures are attached.

This Assignment 113 is in the ENGLISH language and has the same meaning in other languages with the same 113 number and R/D date.

FORM 113

Docket Ref. 64346 css

Page two of two

Additional names, addresses and signatures to be attached to Form No. 110

Entitled: **INDIVIDUAL ASSIGNMENT AND INVENTORS DECLARATION**

At: Midland, Michigan 48674 USA

this 15 day of October 2005

Effective as of September 15, 2005

Signature: [Signature]  
Full Name: Brian A. Jazdzewski  
Residence: 2004 Westbury 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: Freeport, Texas 77541 USA

this 27 day of September 2005

Effective as of September 15, 2005

Signature: [Signature]  
Full Name: Roger L. Kuhlman  
Residence: 117 Dewberry  
Lake Jackson, Texas 77566  
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 7 day of Oct 2005

Effective as of September 15, 2005

Signature: [Signature]  
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 7 day of Oct 2005

Effective as of September 15, 2005

Signature: [Signature]  
Full Name: Timothy T. Wenzel  
Residence: 6909 North Jefferson 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: \_\_\_\_\_  
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 222

Docket Ref. 64346 css

**NOTARIAL CERTIFICATE (INDIVIDUAL)**

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

On this 7 day of October, 2005, personally appeared  
before me,

Daniel J. Arriola

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

Carla Samuels

Notary Public

*Carla S. Samuel*  
NOTARY PUBLIC, BAY COUNTY, MICHIGAN  
ACTING IN MIDLAND COUNTY, MICHIGAN  
MY COMMISSION EXPIRES OCTOBER 10, 2011

**NOTARIAL CERTIFICATE (INDIVIDUAL)**

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

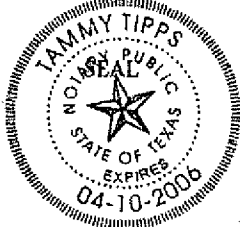
On this 3 day of October, 20 05, personally appeared  
before me.

Edmund M. Carnahan

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.

Sammy Supps

Notary Public



**NOTARIAL CERTIFICATE (INDIVIDUAL)**

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

On this 7 day of October, 2005, personally appeared  
before me,

David D. Devore

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.

Carla & Samuel

Notary Public

*Carla S. Samuel*  
NOTARY PUBLIC, EAY COUNTY, MICHIGAN  
ACTING IN MIDLAND COUNTY, MICHIGAN  
IN COMMISSION EXPIRES OCTOBER 10, 2011

**PATENT**  
**REEL: 043941 FRAME: 0531**

Docket Ref. 64346 c55

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

Phillip D. Hustad

Ammy Lips  
Notary Public

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

**Brian A. Jazdzewski**

Carla L Samuel  
Notary Public

SEAL

Carla S. Samuel  
NOTARY PUBLIC, BAY COUNTY, MICHIGAN  
ACTING IN INDIAN COUNTY, MICHIGAN  
MY COMMISSION EXPIRES OCTOBER 10, 2011

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

Roger L. Kuhman

Tammy Lips  
Notary Public

**PATENT**  
**REEL: 043941 FRAME: 0532**

Docket Ref. 64346 css

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

Francis J. Timmers

Carla Samuel

Carla S. Samuel

MY COMMISSION EXPIRES OCTOBER 10, 2011

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

Timothy T. Wenzel

Carla & Samuel

Carla S. Samuel

NOTARY PUBLIC, BAY COUNTY, MICHIGAN  
ACTING IN MIDLAND COUNTY, MICHIGAN  
MY COMMISSION EXPIRES OCTOBER 10, 2011

# Delaware

PAGE 2

*The First State*

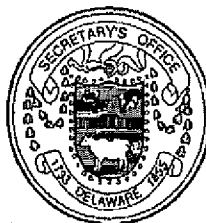
I, JEFFREY W. BULLOCK, SECRETARY OF STATE OF THE STATE OF DELAWARE DO HEREBY CERTIFY THAT THE ATTACHED IS A TRUE AND CORRECT COPY OF CERTIFICATE OF FORMATION OF "DOW GLOBAL TECHNOLOGIES LLC" FILED IN THIS OFFICE ON THE TWENTY-THIRD DAY OF DECEMBER, A.D. 2010, AT 10:40 O'CLOCK A.M.


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: 043941 FRAME: 0534



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*

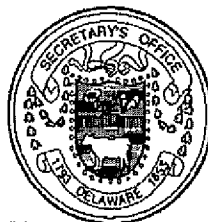
I, JEFFREY W. BULLOCK, SECRETARY OF STATE OF THE STATE OF DELAWARE DO HEREBY CERTIFY THAT THE ATTACHED IS A TRUE AND CORRECT COPY OF THE CERTIFICATE OF CONVERSION OF A DELAWARE CORPORATION UNDER THE NAME OF "DOW GLOBAL TECHNOLOGIES INC." TO A DELAWARE LIMITED LIABILITY COMPANY, CHANGING ITS NAME FROM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

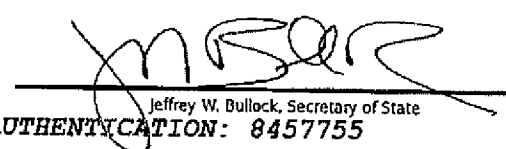
AND I DO HEREBY FURTHER CERTIFY THAT THE EFFECTIVE DATE OF THE AFORESAID CERTIFICATE OF CONVERSION IS THE THIRTY-FIRST DAY OF DECEMBER, A.D. 2010.

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: 043941 FRAME: 0536

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