## 504609687 10/25/2017

# PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4656400

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
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

### **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:	12065867

#### **CORRESPONDENCE DATA**

**Fax Number:** (989)636-3237

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.

using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

Phone: 989-636-7934
Email: kswertz@dow.com
Correspondent Name: KATHY WERTZ
Address Line 1: 2040 DOW CENTER

Addiess Line II. 2040 DOW OLIVIER

Address Line 4: MIDLAND, MICHIGAN 48674

ATTORNEY DOCKET NUMBER:	64346A-US-PCT
NAME OF SUBMITTER:	KATHY WERTZ
SIGNATURE:	/Kathy Wertz/

PATENT 504609687 REEL: 043941 FRAME: 0527

DATE SIGNED:	10/25/2017
Total Attachments: 9	
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PATENT REEL: 043941 FRAME: 0528 This Assuptional \$10 is in the ENGEISH language and has the same meaning to other languages with the same 110 marsher and RiDate

FORM 110 (R 5/97)

Docket Ref. 64346 css

### 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: CATALYTIC OLEFIN BLOCK COPOLYMERS VIA POLYMERIZATION SHUTTLING AGENT

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:

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, U.S.A. (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 Putent in its own name, or in the name of its designed for

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
Application No. 60/717,544 Filing Date September 15, 2005
in country the 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
uny corresponding equivalent
Application NoFiling Date
In 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've 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 Tru-
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.
d and Declared by me/us:

Subscribe

A. 3.87.11	
At: Midland A	dichigan 48674 USA
this day of	of 00000 2005
	September 15_200\$
	0 0 11/2 0
Signature:	July Change
Full Name:	Daniel J. Arriola
Residence:	2100 Mier 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 Midlar 5	B. ) 1
TOUR INTURBULA	dichigan 48674 USA
this 7 day	of Oct. 2005
this 💆 day	of <u>0 c+,</u> , 20 <u>05</u>
this 💆 day	of <u>Oct.</u> 20 <u>05</u>
this 7 day Effective as of 6	of <u>Oct.</u> 20 <u>05</u>
this 7 day Effective as of 6	of <u>O c+</u> , 2005 ceptember 15, 2005
this → day Effective as of & Signature:	of <u>Oct</u> , 2005 icptember 15, 2005
this 7 day Effective as of 6 Signature: [e Full Name:	of Oct. 2005 icptember 15, 2005 awal David D. Devore
this 7 day Effective as of 6 Signature: [e Full Name:	of Oct. 2005 Coptember 15, 2005  David D. Devore 4901 East Shaffer Road
this 7 day Effective as of 6 Signature: 6 Full Name: Residence:	David D. Devore 4901 East Shaffer Road Midland, Michigan 48642
this 7 day Effective as of 6 Signature: 6 Full Name: Residence: Country: Citizenship:	David D. Devore 4901 East Shaffer Road Midland, Michigan 48642 United States of America
this 7 day Effective as of the Signature: 10 feel   Full Name: Residence:   Country:   Citizenship:   P. O. Address:	of Oct., 2005  ceptember 15, 2005  David D. Devore 4901 East Shaffer Road Midland, Michigan 48642 United States of America United States of America

At: Freeport, Texas 77541 USA		
this3 day o	F October . 2005	
Effective as of	September 15, 2005	
<i>ب</i> ر		
Signature:	the to land to	
Full Name:	Edmund M. Carnahan	
Residence:	4619 Twin Elm Drive	
	Fresno, Texas 77545	
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 29 day	of September 2005	
Effective as of September 15, 2005		
$\bigcirc$		
Signature Truly De Von		
Full Name:	Phillip D. Hustad	
Residence:	3618 Rose Water Court	
	Manvel, Texas 77578	
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.

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 day of 2005  Effective as of September 15, 2005  Signature: Full Name: Brian A. Jazdzewski Residence: 2004 Westbury/Drive Midland, Michigan 48642  Country: United States of America P. O. Address: Same as Residence  Employed By: The Dow Chemical Company Of Country: United States of America	At: Freepart, Texas 77541 USA this 27 day of September 2005 Effective as of September 15, 2005  Signature: 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 United States of America
At: Midiand. Michigan 48674 USA this F day of Oct 2005  Effective as of September 15, 2005  Signature Francis J. Tipimers Full Name: Francis J. Tipimers 4605 Lund Drive Midiand, Michigan 48642  Country: United States of America United States of America Employed By: The Dow Chemical Company United States of America United States of America  United States of America  United States of America	At: Midland, Michigan 48674 USA this day of Oct Effective as of Softember 15, 2005  Signature: Jacob 1  Full Name: Timothy T. Wenzel Residence: 6909 North Jefferson Road Midland, Michigan 48642  Country: United States of America  Citizenship: United States of America  Employed By: Of Country: United States of America  United States of America
At:	At: thisday of20
At:	At: thisday of20
Country Cittzenship: P. O. Address: Employed By: Of Country:	Country: Citizenship: P. O. Address: Employed By: Of Country:

Docket Ref. 64346 ess

# NOTARIAL CERTIFICATE (INDIVIDUAL)

UNITED STATES OF AMERICA ) STATE OF MICHIGAN ) S County/Parish of Midland )	s
On this day of day of	,, , , , , , , , , , , , , , , , ,
known or identified to me to be the in	Daniel J. Arriola dividual described in and who executed the ed the same as a free act and deed for uses and
SEAL	Carla S Samuel Notary Public
NOTARIAL CE	Carla S. Samuel  NOTARY PUBLIC, BAY COUNTY, MICHIGAN  ACTING IN MICHAEL COUNTY, MICHIGAN  MY COMMISSION BOTHER OCTOBER 10, 2011  RETIFICATE (INDIVIDUAL)
UNITED STATES OF AMERICA ) STATE OF TEXAS ) County/Parish of Brazoria )	SS
On this 3 day of 00104	ec, 20, personally appeared
Ed known or identified to me to be the in foregoing document and acknowledge purposes therein expressed.	mund M. Carnahan dividual described in and who executed the ed the same as a free act and deed for uses and
NOTARIAL CE	Janny Jym  Notary Public  IRTIFICATE (INDIVIDUAL)
UNITED STATES OF AMERICA ) STATE OF MICHIGAN ) County/Parish of Midland )	SS
On this day of Octo- before me,	(er, 2005, personally appeared
	David D. Devore adividual described in and who executed the ed the same as a free act and deed for uses and
SEAL	Carla & Samuel Notary Public
	Tutu S Standard

Carla S. Samuel

NOTARY PUBLIC, BAY COUNTY, MICHIGAN

ACTING IN MIDUAND COUNTY, MICHIGAN

IN COUNTSSION BENES OCTOBER 10, 2011

FORM 222

Docket Ref. 64346 css

	NOTARIAL CERTIFICATE (INDIVIDUAL)
	UNITED STATES OF AMERICA ) STATE OF TEXAS ) SS County/Parish of Brazoria )
	On this 29 day of September, 2005, personally appeared before me,
	Phillip D. Hustad 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.
AND SHIPPING STATES	foregoing document and acknowledged the same as a free act and deed for uses and purposes therein expressed.  Notary Fublic  NOTARIAL CERTIFICATE (INDIVIDUAL)
	NOTARIAL CERTIFICATE (INDIVIDUAL)  UNITED STATES OF AMERICA )
	UNITED STATES OF AMERICA ) STATE OF MICHIGAN ) SS County/Parish of Midland )
	On this day of, 20_5, personally appeared before me,
	Brian A. Jazdzewski 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, MICHGAN  ACTING IN MICHAN COUNTY, MICHGAN  MY COMMISSION EXPRES OCTOBER 10, 2011  NOTARIAL CERTIFICATE (INDIVIDUAL)
	UNITED STATES OF AMERICA ) STATE OF TEXAS ) SS County/Parish of Brazoria )
	On this <u>29</u> day of <u>September</u> , 20 <u>05</u> , personally appeared before me,
	Roger L. Kuhlman 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.
	Damy Jugo Notary Public  Notary Fublic
	Manufacturent Commence

FORM 221

Docket Ref. 64346 css

## NOTARIAL CERTIFICATE (INDIVIDUAL)

UNITED STATES OF AMERICA ) STATE OF MICHIGAN ) County/Parish of Midland )	ss ·
On this day of Clo	ber, 2005, personally appeared
Francis J. Timmers	
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.	
	Coula S Samuel
SEAL	Notary Public
	Carla S. Samuel  NOTARY PUBLIC, BAY COUNTY, MICHIGAN  ACTING IN MICHIGAN  MY COMMISSION EXPIRES OCIOSER 10, 2011
NOTARIAL CERTIFICATE (INDIVIDUAL)	
UNITED STATES OF AMERICA ) STATE OF MICHIGAN ) County/Parish of Midland )	SS
On this day of Co before me,	20 05, personally appeared
	Timothy T. Wenzel
	ndividual described in and who executed the ed the same as a free act and deed for uses and
	Carla & Samuel
SEAL	Notary Public

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

CL00080802

Delaware

# 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.

101227862

You may vorify this certificate online at corp.delaware.gov/authver.shtml

AUTHENTY CATION: 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

a

### 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 <u>Del.C.§18-101</u>, <u>81 889</u>.).

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.
- 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 day of December, 2010.

Noreen D. Warrick

Authorized Representative



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 varify this certificate online at corp. delaware.gov/authver.shtml

AUTHENTY CATION: 8457755

J

DATE: 12-29-10

PATENT REEL: 043941 FRAME: 0536

P.3/3

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:

- The jurisdiction where the Corporation was first formed is Delaware.
- The jurisdiction immediately prior to filing this Certificate is Delaware.
- The date the Corporation was first formed is April 6, 1993.
- 4. The name of the Corporation immediately prior to filling 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'day of December, 2010.

Dow Global Technologies Inc.

Name: Noreen D. Warrick

Title: Secretary

PATENT REEL: 043941 FRAME: 0537

RECORDED: 10/25/2017