

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

EPAS ID: PAT4414111

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
RAYMOND P ROACH	02/24/2014
SANJIB BISWAS	02/20/2014
MARK A SILVANO	02/24/2014
MUHUNTHAN SATHIOSATHAM	02/24/2014
SARAH L HRUBY	02/24/2014
ANDREW M LEMONDS	03/06/2014
LEONARD E BOGAN JR	02/24/2014
SARAH M HOYT	10/16/2014
ROBERT TENGLER	10/22/2014
RECEIVING PARTY DATA	
Name:	DOW GLOBAL TECHNOLOGIES LLC
Street Address:	2040 DOW CENTER
City:	MIDLAND
State/Country:	MICHIGAN
Postal Code:	48674
Name:	ROHM AND HAAS COMPANY
Street Address:	100 INDEPENDENCE MALL WEST
City:	PHILADELPHIA
State/Country:	PENNSYLVANIA
Postal Code:	19106
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	15028109
CORRESPONDENCE DATA	
Fax Number:	(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>	
Phone:	989-636-8434
Email:	PJKACZMARCZYK@DOW.COM

Correspondent Name: ROHM AND HAAS COMPANY
Address Line 1: C/O DOW GLOBAL TECHNOLOGIES LLC
Address Line 2: 2040 DOW CENTER
Address Line 4: MIDLAND, MICHIGAN 48674

ATTORNEY DOCKET NUMBER: 78499-US-PCT

NAME OF SUBMITTER: PATRICIA KACZMARCZYK

SIGNATURE: /Patricia Kaczmarczyk/

DATE SIGNED: 05/15/2017

Total Attachments: 12

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FORM 110 (R 3/97)

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: AMMONIUM BISULFATE CATALYZED DEHYDRATION OF BETA-HYDROXY ACIDS

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 LLC
2040 Dow Center
Midland, Michigan 48674

an entity 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
61/891,970	October 17, 2013	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.

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: _____ this <u>24th</u> day of <u>February</u> , 20 <u>14</u> Effective as of October 17, 2013 Signature: <u>Raymond P. Roach</u> Full Name: Raymond P. Roach Residence: 6004 Harwood Drive 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 _____ Effective as of October 17, 2013 Signature: _____ Full Name: Sanjib Biswas Residence: 2420 Damman Drive, Apartment 202 Midland, Michigan 48640 Country: United States of America Citizenship: India 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 the time of invention.

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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 LLC
2040 Dow Center
Midland, Michigan 48674

an entity 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

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Subscribed and Declared by me/us:

At: _____ this _____ day of _____, 20____ Effective as of October 17, 2013
Signature: _____ Full Name: Raymond P. Roach Residence: 6004 Harwood Drive 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: <u>MIDLAND, MICHIGAN</u> this <u>20th</u> day of <u>February</u> , 20 <u>14</u> Effective as of October 17, 2013
Signature: _____ Full Name: Sanjib Biswas Residence: 2420 Damman Drive, Apartment 202 Midland, Michigan 48640 Country: United States of America Citizenship: India 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 the time of invention.

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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:

Rohm and Haas Company
100 Independence Mall West
Philadelphia, Pennsylvania 19106

an entity 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

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61/891,970	October 17, 2013	United States of America

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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: _____ this _____ day of _____, 20____ Effective as of October 17, 2013
Signature: _____ Full Name: Leonard E. Bogan, Jr. Residence: 3201 West Sugnet Road Midland, Michigan 48640 Country: United States of America Citizenship: United States of America P.O. Address: Same as Residence Employed By: Rohm and Haas Chemicals LLC Of Country: United States of America

At: <u>Spring House, PA 19477, USA</u> this <u>24</u> day of <u>February</u> , 20 <u>14</u> Effective as of October 17, 2013
Signature: <u>Mark A. Silvano</u> Full Name: Mark A. Silvano Residence: 344 Marienstein Road Upper Black Eddy, Pennsylvania 18972 Country: United States of America Citizenship: United States of America P.O. Address: Same as Residence Employed By: Rohm and Haas Chemicals LLC Of Country: United States of America

At: <u>Spring House, PA 19477, USA</u> this <u>24th</u> day of <u>February</u> , 20 <u>14</u> Effective as of October 17, 2013
Signature: <u>S. Sathiosatham</u> Full Name: Muhunthan Sathiosatham Residence: 134 Stetson Drive Chalfont, Pennsylvania 18914 Country: United States of America Citizenship: United States of America P.O. Address: Same as Residence Employed By: Rohm and Haas Chemicals LLC Of Country: United States of America

At: <u>Spring House, PA 19477, USA</u> this <u>24th</u> day of <u>February</u> , 20 <u>14</u> Effective as of October 17, 2013
Signature: <u>Sarah L. Hruby</u> Full Name: Sarah L. Hruby Residence: 20 Meadowbrook Road North Wales, Pennsylvania 19454 Country: United States of America Citizenship: United States of America P.O. Address: Same as Residence Employed By: Rohm and Haas Chemicals LLC Of Country: United States of America

(X) Additional names and signatures are attached.

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

At: Freeport, Texas
 this 6th day of March, 2014
 Effective as of October 17, 2013

Signature: [Signature]
 Full Name: Andrew M. Lemonds
 Residence: 57 Southernwood Court
 Lake Jackson, TX 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: _____
 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: _____

At: _____
 this _____ day of _____, 20____

Signature: _____
 Full Name: _____
 Residence: _____

Country: _____
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 P.O. Address: _____
 Employed By: _____
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Rohm and Haas Company
100 Independence Mall West
Philadelphia, Pennsylvania 19106

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Subscribed and Declared by me/us:

At: <u>MIDLAND, MI</u> this <u>24th</u> day of <u>FEBRUARY</u> , 20 <u>14</u> Effective as of October 17, 2013
Signature: <u>Leonard E. Bogan, Jr.</u>
Full Name: Leonard E. Bogan, Jr. Residence: 3201 West Sugnet Road Midland, Michigan 48640 Country: United States of America Citizenship: United States of America P.O. Address: Same as Residence Employed By: Rohm and Haas Chemicals LLC Of Country: United States of America

At: _____ this _____ day of _____, 20 _____ Effective as of October 17, 2013
Signature: _____
Full Name: Mark A. Silvano Residence: 344 Marienstein Road Upper Black Eddy, Pennsylvania 18972 Country: United States of America Citizenship: United States of America P.O. Address: Same as Residence Employed By: Rohm and Haas Chemicals LLC Of Country: United States of America

At: _____ this _____ day of _____, 20 _____ Effective as of October 17, 2013
Signature: _____
Full Name: Muhunthan Sathiosatham Residence: 134 Stetson Drive Chalfont, Pennsylvania 18914 Country: United States of America Citizenship: United States of America P.O. Address: Same as Residence Employed By: Rohm and Haas Chemicals LLC Of Country: United States of America

At: _____ this _____ day of _____, 20 _____ Effective as of October 17, 2013
Signature: _____
Full Name: Sarah L. Hruby Residence: 20 Meadowbrook Road North Wales, Pennsylvania 19454 Country: United States of America Citizenship: United States of America P.O. Address: Same as Residence Employed By: Rohm and Haas Chemicals LLC Of Country: United States of America

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

At: _____
 this _____ day of _____, 20 _____
 Effective as of October 17, 2013

Signature: _____
 Full Name: Andrew M. Lemonds
 Residence: 234 Goshen Road
 Schwenksville, Pennsylvania 19473
 Country: United States of America
 Citizenship: United States of America
 P.O. Address: Same as Residence
 Employed By: Rohm and Haas Chemicals LLC
 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: _____
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Signature: _____
 Full Name: _____
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OPX Biotechnologies, Inc.
2425 55th Street, Suite 100
Boulder, Colorado 80301

an entity 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

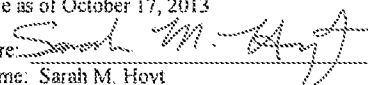
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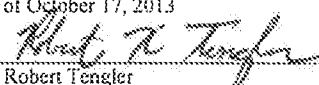
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Subscribed and Declared by me/us.

At: _____
this 16 day of October, 20 14
Effective as of October 17, 2013

Signature: 
Full Name: Sarah M. Hoyt
Residence: ~~850 W Moorhead Circle 1K~~ 8750 E. Rowles
~~Boulder, Colorado 80305~~ Greenwood Village, CO
Country: United States of America 80111
Citizenship: United States of America
P.O. Address: Same as Residence
Employed By: OPX Biotechnologies, Inc.
Of Country: United States of America

At: _____
this 22 day of October, 20 14
Effective as of October 17, 2013

Signature: 
Full Name: Robert Tengler
Residence: 1040 Katy Lane
Longmont, Colorado 80504
Country: United States of America
Citizenship: United States of America
P.O. Address: Same as Residence
Employed By: OPX Biotechnologies, Inc.
Of Country: United States of America

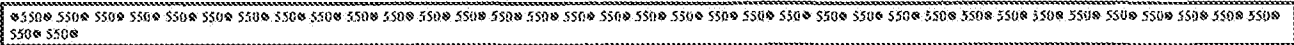
At: _____
this _____ day of _____, 20 _____
October 17, 2013

Signature: _____
Full Name: David C. DeCoster
Residence: 113 5th Avenue
Lyons, Colorado 80540
Country: United States of America
Citizenship: United States of America
P.O. Address: Same as Residence
Employed By: OPX Biotechnologies, Inc.
Of Country: United States of America

At: _____
this _____ day of _____, 20 _____

Signature: _____
Full Name: _____
Residence: _____
Country: _____
Citizenship: _____
P.O. Address: _____
Employed By: _____
Of Country: _____

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



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FORM 550

NOTARIAL CERTIFICATE (Corporation)

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

On this 16th day of October, 20 14, personally
appeared before me,

Earl M. Douglas, Vice President, General Counsel

known or identified to me to be the individual described in and who executed the foregoing
document

Transfer Assignment for and on behalf of OPX Biotechnologies, Inc.

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.

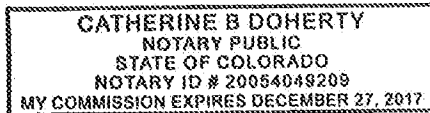
I further certify that said authority, dated May 7, 2012 is based on

Action By Unanimous Written Consent Of The Board Of Directors

which I have seen, appointing the said individual 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

Catherine B. Doherty
Notary Public
Catherine B. Doherty



This Assignment 990 is in the ENGLISH language and has the same meaning in other languages with the same 990 number.

•990•

This Assignment 990 is in the ENGLISH language and has the same meaning in other languages with the same 990 number.

ASSIGNMENT

(TRANSFER)

We, **ASSIGNOR:** OPX Biotechnologies, Inc.
of: 2425 55th Street, Suite 100
Boulder, Colorado 80301
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 are the recorded owner of the following Patent Application(s) or Letters Patent(s) and other rights and powers obtainable or exercisable in respect thereof as numbered in United States of America Application/Patent No(s).:

Application No.	File Date	TITLE
61/891,970	October 17, 2013	AMMONIUM BISULFATE CATALYZED DEHYDRATION OF BETA-HYDROXY ACIDS

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

ASSIGNEE: Dow Global Technologies LLC
2040 Dow Center
Midland, Michigan 48674
United States of America

a limited liability company organized and existing under the laws of Delaware our entire right, title and interest in and to the said Patent Application(s) or Letters Patent(s), and consent to the recordal of this Assignment.

ASSIGNOR

ASSIGNEE

Subscribed and Sworn by us:

Accepted by us:

At Boulder, CO 80301 USA

At Midland, Michigan 48674, USA

this 16th day of October 2014

this 20 day of October 2014

OPX BIOTECHNOLOGIES, INC.

DOW GLOBAL TECHNOLOGIES LLC

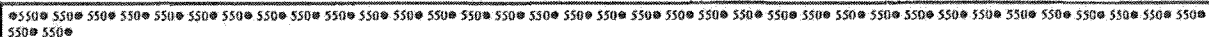
By [Signature]
Vice President, General Counsel

By [Signature]
Susan M. Zerull
Authorized Representative

CORP.
SEAL

CORP.
SEAL

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



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

FORM 550

NOTARIAL CERTIFICATE (Corporation)

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

On this 16th day of October, 2014, personally appeared before me,

Earl M. Douglas, Vice President, General Counsel

known or identified to me to be the individual described in and who executed the foregoing document

Transfer Assignment for and on behalf of OPX Biotechnologies, Inc.

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.

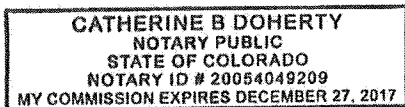
I further certify that said authority, dated May 7, 2012 is based on

Action By Unanimous Written Consent Of The Board Of Directors

which I have seen, appointing the said individual 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

Catherine B. Doherty
Notary Public
Catherine B. Doherty



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



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

FORM 550

NOTARIAL CERTIFICATE (Corporation)

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

On this 20 day of October, 2014, 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 Transfer Assignment for and on behalf of Dow Global Technologies LLC and acknowledged the same as a free act and deed for uses and purposes therein expressed by authority of the said limited liability company incorporated under the laws of **the State of Delaware, United States of America.**

I further certify that said authority, dated June 1, 2014, 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

Notary Public
Kathy Sue Wertz
NOTARY PUBLIC, MIDLAND COUNTY, MICHIGAN
MY COMMISSION EXPIRES APRIL 07, 2018