

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT4980920

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
CHRISTOPHER R. EDDY	02/26/2015
SARAT MUNJAL	02/06/2015
JOHN O. OSBY	03/02/2015
SEAN W. EWART	02/11/2015
<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>	15646322
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(414)223-5000
<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>	4149785559
<b>Email:</b>	jere.polmatier@huschblackwell.com
<b>Correspondent Name:</b>	JERE L. POLMATIER
<b>Address Line 1:</b>	HUSCH BLACKWELL LLP
<b>Address Line 2:</b>	555 EAST WELLS STREET, SUITE 1900
<b>Address Line 4:</b>	MILWAUKEE, WISCONSIN 53202
<b>ATTORNEY DOCKET NUMBER:</b>	DOW-38363-A-US-A
<b>NAME OF SUBMITTER:</b>	JERE L. POLMATIER
<b>SIGNATURE:</b>	/jlp/
<b>DATE SIGNED:</b>	05/29/2018
<b>Total Attachments: 5</b>	
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FORM 110 (R 5/97)


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: **PROCESSES TO FORM ETHYLENE-BASED POLYMERS USING ASYMMETRICAL POLYENES**

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

Priority Number	Filing Date	Filing Country
61/920,899	December 26, 2013	United States of America

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.

At: Freeport, Texas  
this 26 day of February, 20 15  
Effective as of December 26, 2013

Signature:   
Full Name: Christopher R. Eddy  
Residence: 607 Walnut Street  
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: \_\_\_\_\_  
this \_\_\_\_\_ day of \_\_\_\_\_, 20 \_\_\_\_\_  
Effective as of December 26, 2013

Signature: \_\_\_\_\_  
Full Name: Sarat Munjal  
Residence: 106 Thyme Trail  
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: \_\_\_\_\_  
this \_\_\_\_\_ day of \_\_\_\_\_, 20 \_\_\_\_\_  
Effective as of December 26, 2013

Signature: \_\_\_\_\_  
Full Name: John O. Osby  
Residence: 109 Catalpa Street  
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: \_\_\_\_\_  
this \_\_\_\_\_ day of \_\_\_\_\_, 20 \_\_\_\_\_  
Effective as of December 26, 2013

Signature: \_\_\_\_\_  
Full Name: Sean W. Ewart  
Residence: 3015 Chance Court  
Pearland, Texas 77584  
Country: United States of America  
Citizenship: Canada  
P.O. Address: Same as Residence  
Employed By: The Dow Chemical Company  
Of Country: United States of America

**PATENT**  
**REEL: 045920 FRAME: 0797**

[illegible]

This AxiomBook 110 is in the ENGLISH language and has the same meaning in other languages with the same 110 number and B/D/r.

FORM 110 (R 5/97)

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

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
61/920,899	December 26, 2013	United States of America

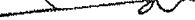
I/we authorize Assignee or its designee to translate this Assignment into all languages necessary; and we request that any such Letters Patent be issued to Assignee; and consent to the recordal of this Assignment, or a Notarial True Copy thereof, being under covenant not only that I/we have full power 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 December 26, 2013

Signature: \_\_\_\_\_  
Full Name: Christopher R. Eddy  
Residence: 607 Walnut Street  
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: Freeport, TX 77541, USA  
this 06 day of February, 20 15  
Effective as of December 26, 2013

Signature: 

Full Name: Sarat Munjal  
Residence: 106 Thyme Trail  
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: \_\_\_\_\_  
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this \_\_\_\_\_ day of \_\_\_\_\_, 20 \_\_\_\_\_  
Effective as of December 26, 2013

Signature: \_\_\_\_\_  
Full Name: Sean W. Ewart  
Residence: 3015 Chance Court  
Pearland, Texas 77584  
Country: United States of America  
Citizenship: Canada  
P.O. Address: Same as Residence  
Employed By: The Dow Chemical Company  
Of Country: United States of America

( ) Additional names and signatures are attached.

This Assignment 110 is in the ENGLISH language and has the same meaning in other languages with the same 110 number and R/Date

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FORM 110 (R 5/97)

## 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: **PROCESSES TO FORM ETHYLENE-BASED POLYMERS USING ASYMMETRICAL POLYENES**

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  
United States of America

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
61/920,899	December 26, 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 \_\_\_\_\_ day of \_\_\_\_\_, 20 \_\_\_\_\_  
Effective as of December 26, 2013

Signature: \_\_\_\_\_  
Full Name: Christopher R. Eddy  
Residence: 607 Walnut Street  
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: \_\_\_\_\_  
this \_\_\_\_\_ day of \_\_\_\_\_, 20 \_\_\_\_\_  
Effective as of December 26, 2013

Signature: \_\_\_\_\_  
Full Name: Sarat Munjal  
Residence: 106 Thyme Trail  
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: Freeport, Texas, USA 77541  
this 2<sup>nd</sup> day of March, 20 15  
Effective as of December 26, 2013

Signature: John O. Osby  
Full Name: John O. Osby  
Residence: 109 Catalpa Street  
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: \_\_\_\_\_  
this \_\_\_\_\_ day of \_\_\_\_\_, 20 \_\_\_\_\_  
Effective as of December 26, 2013

Signature: \_\_\_\_\_  
Full Name: Sean W. Ewart  
Residence: 3015 Chance Court  
Pearland, Texas 77584  
Country: United States of America  
Citizenship: Canada  
P.O. Address: Same as Residence  
Employed By: The Dow Chemical Company  
Of Country: United States of America

( ) Additional names and signatures are attached.

[illegible]

This Assignment 110 is in the ENGLISH language and has the same meaning in other languages with the same 110 number and R/Date

[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

## ASSIGNEE ACCEPTANCE

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

hereby accept the ASSIGNMENT which is dated: February 26, 2015, February 6, 2015, February 13, 2015, and February 11, 2015; effective as of December 26, 2013.

From, the ASSIGNOR: Christopher R. Eddy, 607 Walnut Street, Lake Jackson, Texas 77566, United States of America, Citizen of United States of America; Sarat Munjal, 106 Thyme Trail, Lake Jackson, Texas 77566, United States of America, Citizen of United States of America; John O. Osby, 109 Catalpa Street, Lake Jackson, Texas 77566, United States of America, Citizen of United States of America; and Sean W. Ewart, 3015 Chance Court, Pearland, Texas 77584, United States of America, Citizen of Canada

of the invention entitled:

# PROCESSES TO FORM ETHYLENE-BASED POLYMERS USING ASYMMETRICAL POLYENES

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 9 day of March, 2015

'CORP.  
SEA:

**DOW GLOBAL TECHNOLOGIES LLC**

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

# NOTARIAL CERTIFICATE

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

On this 9 day of March, 2015, 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 entity organized and existing 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 of said Limited Liability Company**

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

SEAL.

\_\_\_\_\_  
 Kathy Sue Werz  
 NOTARY PUBLIC, MIDLAND COUNTY, MICHIGAN  
 MY COMMISSION EXPIRES APRIL 07, 2018

# PATENT

**RECORDED: 05/29/2018**

REEL: 045920 FRAME: 0801