

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT5448846

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
ANDREW M. CAMELIO	12/05/2016
ARKADY L. KRASOVSKIY	12/02/2016
MATTHEW D. CHRISTIANSON	12/05/2016
AMARUKA HAZARI	12/05/2016
HEATHER SPINNEY	12/05/2016
ROBERT DJ. FROESE	12/05/2016
<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>
Application Number:	16338209
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(937)449-6405
<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>	937-449-6400
<b>Email:</b>	daytonipdocket@dinsmore.com
<b>Correspondent Name:</b>	DINSMORE & SHOHL LLP
<b>Address Line 1:</b>	ONE SOUTH MAIN STREET
<b>Address Line 2:</b>	FIFTH THIRD CENTER, SUITE 1300
<b>Address Line 4:</b>	DAYTON, OHIO 45402
<b>ATTORNEY DOCKET NUMBER:</b>	78541-US-PCT/DOW 78541 PA
<b>NAME OF SUBMITTER:</b>	JENNIFER A. HUFFMAN
<b>SIGNATURE:</b>	/Jennifer A. Huffman/
<b>DATE SIGNED:</b>	03/29/2019

**Total Attachments: 4**

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**TRUE COPY**

TO ALL TO WHOM THESE PRESENTS SHALL COME,

I Do Hereby Certify that the annexed document(s) are TRUE COPIES of the original document(s) which I have compared.

at Lake Jackson, Texas, 77566, USAthis 13<sup>th</sup> day of February 20 19

Lauren Perkins  
Office Professional  
THE DOW CHEMICAL COMPANY

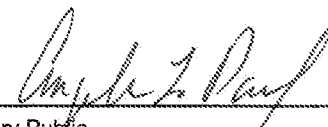
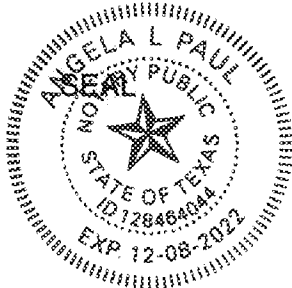
**NOTARIAL CERTIFICATE**

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

On this 13<sup>th</sup> day of February 20 19, personally  
appeared before me,

**Lauren Perkins**

known or identified to me to be the individual who executed the foregoing document and acknowledged the same as a free act and deed for uses and purposes therein expressed.

  
\_\_\_\_\_  
Notary Public

# 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: **BIS-LIGATED PHOSPHAGUANIDINE GROUP IV METAL COMPLEXES AND OLEFIN POLYMERIZATION CATALYSTS PRODUCED THEREFROM**

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
62/402,541	September 30, 2016	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: Midland, MI 48674, USA  
this 5th day of December, 20 16  
Effective as of September 30, 2016  
Signature: [Signature]  
Full Name: Andrew M. Camelio  
Mailing Address: Building 1776 Washington Street  
Midland, Michigan 48674  
United States of America

At: \_\_\_\_\_  
this \_\_\_\_\_ day of \_\_\_\_\_, 20 \_\_\_\_  
Effective as of September 30, 2016  
Signature: \_\_\_\_\_  
Full Name: Arkady L. Krasovski  
Mailing Address: 2301 North Brazosport Boulevard  
Freeport, Texas 77541  
United States of America

At: Midland, MI 48674, USA  
this 5th day of December, 20 16  
Effective as of September 30, 2016  
Signature: [Signature]  
Full Name: Matthew D. Christianson  
Mailing Address: Building 1776 Washington Street  
Midland, Michigan 48674  
United States of America

At: \_\_\_\_\_  
this \_\_\_\_\_ day of \_\_\_\_\_, 20 \_\_\_\_  
Effective as of September 30, 2016  
Signature: \_\_\_\_\_  
Full Name: Amaruka Hazari  
Mailing Address: 9330 Zionsville Rd.  
Indianapolis, Indiana 46268  
United States of America

At: Midland, MI 48674, USA  
this 5th day of December, 20 16  
Effective as of September 30, 2016  
Signature: [Signature]  
Full Name: Heather Spinney  
Mailing Address: Building 1776 Washington Street  
Midland, Michigan 48642  
United States of America

At: Midland, MI 48674, USA  
this 5th day of December, 20 16  
Effective as of September 30, 2016  
Signature: [Signature]  
Full Name: Robert DJ Froese  
Mailing Address: Building 1776 Washington Street  
Midland, Michigan 48674  
United States of America

This Assignment 110 is in the ENGLISH language and has the same meaning in other languages with the same 110 number and R&gt;Date.

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FORM 110 (R 5/07)

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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
62/402,541	September 30, 2016	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 September 30, 2016  
Signature: \_\_\_\_\_  
Full Name: Andrew M. Camelio  
Mailing Address: Building 1776 Washington Street  
Midland, Michigan 48674  
United States of America

At: Freeport, Texas 77541  
this 2 day of December, 2016  
Effective as of September 30, 2016  
Signature: \_\_\_\_\_  
Full Name: Arkady L. Krasovskiy  
Mailing Address: 2301 North Brazosport Boulevard  
Freeport, Texas 77541  
United States of America

At: \_\_\_\_\_  
this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_  
Effective as of September 30, 2016  
Signature: \_\_\_\_\_  
Full Name: Matthew D. Christianson  
Mailing Address: Building 1776 Washington Street  
Midland, Michigan 48674  
United States of America

At: \_\_\_\_\_  
this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_  
Effective as of September 30, 2016  
Signature: \_\_\_\_\_  
Full Name: Amaruka Hazari  
Mailing Address: 9330 Zionsville Rd.  
Indianapolis, Indiana 46268  
United States of America

At: \_\_\_\_\_  
this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_  
Effective as of September 30, 2016  
Signature: \_\_\_\_\_  
Full Name: Heather Spinney  
Mailing Address: Building 1776 Washington Street  
Midland, Michigan 48642  
United States of America

At: \_\_\_\_\_  
this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_  
Effective as of September 30, 2016  
Signature: \_\_\_\_\_  
Full Name: Robert DJ Froese  
Mailing Address: Building 1776 Washington Street  
Midland, Michigan 48674  
United States of America

This Assignment Sheet is in the English language and has the same meaning in other languages with the same title number and date.

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FORM 110 (R 4-01)

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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
637402,541	September 30, 2016	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 in or equivalent to the above identified application as Assignee may request.

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Effective as of September 30, 2016  
Signature: \_\_\_\_\_  
Full Name: Andrew M. Camello  
Mailing Address: Building 1776 Washington Street  
Midland, Michigan 48674  
United States of America

At: \_\_\_\_\_  
this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_  
Effective as of September 30, 2016  
Signature: \_\_\_\_\_  
Full Name: Arkady I. Krasovskiy  
Mailing Address: 2301 North Brazosport Boulevard  
Freeport, Texas 77541  
United States of America

At: \_\_\_\_\_  
this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_  
Effective as of September 30, 2016  
Signature: \_\_\_\_\_  
Full Name: Matthew D. Christanson  
Mailing Address: Building 1776 Washington Street  
Midland, Michigan 48674  
United States of America

At: Indianapolis, Indiana  
this 5th day of December, 2016  
Effective as of September 30, 2016  
Signature: A. H. H. H.  
Full Name: Amarika H. H. H.  
Mailing Address: 9330 Zionville Rd  
Indianapolis, Indiana 46268  
United States of America

At: \_\_\_\_\_  
this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_  
Effective as of September 30, 2016  
Signature: \_\_\_\_\_  
Full Name: Heather Spinney  
Mailing Address: Building 1776 Washington Street  
Midland, Michigan 48674  
United States of America

At: \_\_\_\_\_  
this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_  
Effective as of September 30, 2016  
Signature: \_\_\_\_\_  
Full Name: Robert D. Froese  
Mailing Address: Building 1776 Washington Street  
Midland, Michigan 48674  
United States of America

PATENT