### 503312456 05/19/2015

### PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3359074

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

### **CONVEYING PARTY DATA**

Name	Execution Date
JERZY KLOSIN	01/09/2013
RUTH FIGUEROA	01/09/2013
PULIKKOTTIL J. THOMAS	01/02/2013
MEHMET DEMIRORS	01/07/2013
SYLVIE DESJARDINS	01/03/2013
MRIDULA KAPUR	01/25/2013
PHILIP P. FONTAINE	01/14/2013

### **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	Type Number	
Application Number:	14437543	

### **CORRESPONDENCE DATA**

**Fax Number:** (713)528-1202

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.

**Phone:** 713-528-1200

Email: paralegal@jlsalazar.com

Correspondent Name: THE II SALAZAR LAW FI

Correspondent Name: THE JL SALAZAR LAW FIRM Address Line 1: 1934 W. GRAY ST., SUITE 401

Address Line 4: HOUSTON, TEXAS 77019

Address Line 4: HOUSTON, TEXAS 77019

ATTORNEY DOCKET NUMBER:	71459-US-PCT
NAME OF SUBMITTER:	VALERIE FRIEDRICH
SIGNATURE:	/Valerie Friedrich/
DATE SIGNED:	05/19/2015

PATENT REEL: 035667 FRAME: 0373

503312456

# Total Attachments: 7 source=71459\_Assignment#page1.tif source=71459\_Assignment#page2.tif source=71459\_Assignment#page3.tif source=71459\_Assignment#page4.tif source=71459\_Assignment#page5.tif source=71459\_Assignment#page6.tif source=71459\_Assignment#page7.tif

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: CATALYST SYSTEMS FOR OLEFIN POLYMERIZATION

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

a limited liability company organized and existing under the laws 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
61/746,151	December 27, 2012	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 heretofere given.

Subscribed and Declared by me/us:

At Midan Mil	At: midland mi
this 9 day of 70.20 12	
Effective as of December 27, 2012	Effective as of December 27, 2012
Signature: Full Name: Jerry klosin Residence: 2200 Parkwood Drive Midland, Michigan 48642 Country: United States of America Citizenship: Poland P.O. Address: Same as Residence Employed By: The Dow Chemical Company Of Country: United States of America	Signature: Full Name: Ruth Figueroa Residence: 1490 Riverchase 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:	
A	At:
this day of, 20	this day of 20
Effective as of December 27, 2012	Effective as of December 27, 2012
Signature:	
Full Name: Pulikkottil J. Thomas	Signature:
Residence: 4310 Andre Street	Full Name: Mehmet Demirors
	Residence: 2319 Bending Spring Dr.
Midland, Michigan 48642 Country: United States of America	Pearland, Texas 77584
Citizenship: United States of America	Country: United States of America
P.O. Address: Same as Residence	Citizenship: Netherlands
Employed By: The Dow Chemical Company	P.O. Address: Same as Residence
Of Country: United States of America	Employed By: The Dow Chemical Company
or country. Officer States of America	Of Country: United States of America
tional names and signatures are attached.	, care out to the total

(X) Addi:

FORM 110 (R 5.97)

# INDIVIDUAL ASSIGNMENT AND INVENTOR'S DECLARATION

(with Priority Rights)

I/we verity believe I ans/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: CATALYST SYSTEMS FOR OLEFIN POLYMERIZATION

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). Use acknowledge that Use 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

2040 Dow Center
Midland, Michigan 48674
a limited fiability company organized and existing under the laws 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

	Priority Number	12.5	
	A LOUIS LAGINGE	Filing Date 1	E:W
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	61/746,151	Daniel 1 37 2012	
- 1	011110,101	December 27, 2012	United States of America
			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. Vive 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:	
his day of , 20	At:   this   day of   .20   Effective as of December 27, 2012
Signature: Puli Name: Jerzy Klosin Residence: 2209 Parkwood Drive Midland, Michigan 48642 Country: United States of America Ditizenship: Poland O. Address: Same as Residence suployed By: The Dow Chemical Company of Country: United States of America	Signature: Full Name: Ruth Figueroa Residence: 1490 Riverchase 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
" MIDLAND MICHIGAN	[A+:

this and day of TALLY ADAY 70.13	At:
this 2-4 day of TANUARY .20 13 Effective as of December 27, 2012	this day of , 20 Effective as of December 27, 2012
Signature: Prackfeetal T. Thomas	Signature:
Full Name: Pulikkottil J. Thomas Residence: 4310 Andre Street	Full Name: Mehmet Demirors Residence: 2319 Bending Spring Dr.
Midland, Michigan 48642 Country: United States of America	Pearland, Texas 77584 Country: United States of America
Citizenship: United States of America P.O. Address: Same as Residence	Citizenship: Netherlands P.O. Address: Same as Residence
Employed By: The Dow Chemical Company Of Country: United States of America	Employed By: The Dow Chemical Company Of Country: United States of America

( X ). Additional names and signatures are attached.

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FORM 110 (8 5/97)

# INDIVIDUAL ASSIGNMENT AND INVENTOR'S DECLARATION

(with Priority Rights)

Uwe verify 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: CATALYST SYSTEMS FOR OLEFIN POLYMERIZATION

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 trustec(s), and for good and valuable consideration and/or the remuneration received

Dow Global Technologies LLC 2040 Dow Center

Midland, Michigan 48674

a limited liability company organized and existing under the laws 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 designed (or nominee(s)); and all rights and powers to file any law of the permitted by law. Tention in the name of its designed (or nominee(s)); and all rights and powers to file any law of the permitted by law. Tention in the same of the name of its designed (or nominee(s)); and all rights and powers to file any law of the permitted and Tention in the same of Assistance and the books of the permitted and Tention in the same of Assistance and the books of the permitted and Tention in the same of Assistance and the books of the permitted and Tention in the same of Assistance and the books of the permitted and Tention in the same of Assistance and the books of the permitted and Tention in the same of Assistance and the books of the permitted and Tention in the same of the permitted and the permitted and the permitted and the per International Convention(s) and Treaties in the name of Assignee, and do hereby authorize Assignee or its designee to insert here the Priority

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	61/746 (6)	Filing Country
	December 27, 2012	
		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 presecution 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 nutborize Assignee or its designee to translate this Assignment into all languages necessary; and we request that any such Letters Patent be issued tive authorize Assignee or its designee to translate trits Assignment into all earguages necessary, and we request that any such Letters raterit or 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 27, 2012	At: thisday of
Signature:	Effective as of December 27, 2012
Foll Name: Jerzy Klosin Residence: 2209 Parkwood Drive Midland, Michigen 48642 Country: United States of America Citizenship: Poland P.O. Address: Same as Residence Employed By: The Dow Chemical Company	Signature: Full Name: Ruth Figueroa Residence: 1490 Riverchase Midland, Michigan 48640 Country: United States of America Citizenship: United States of America P.O. Address: Same as Residence
At:  day of 20	Employed By: The Dow Chemical Company Of Country: United States of America  At: TreADAT
Bective as of December 27, 2012  ignature: ull Name: Pulikkottii J. Thomas esidence: 4310 Andre Street	this 7th day of Jaman 20 13  Effective as of December 27, 2012  Signature: Detturion  Full Name: Mehmet Demirors
Midland, Michigan 48642 ountry: United States of America itizenship: United States of America O. Address: Same as Residence uployed By: The Dow Chemical Commun.	Residence: 2319 Bending Spring Dr. Pearland, Texas 77584 Country: United States of America Citizenship: Notherlands P.O. Address: Same as Residence
Country: United States of America all names and signatures are attached.	Employed By: The Dow Chemical Company Of Country: United States of America

(X) Add

mai names, addresses and signatures to be attached to For	M No. 110 INDIVIDUAL ASSIGNMENT AND INVENTORS DECLAR	9-US
ALL LAKE JACKSON, TX	At:	RATIO
this 3d day of Janhart .20 15 Effective as of December 27, 2012	? I this	
Effective as of December 27, 2012	this day of	_
Signature: 5 Designature	Proceive as of December 27, 2012	_
Signature: Osiavolus	Signature:	- 1
If till Name: Survice Decigations	Full Name: Mridula Kapur	_
Residence: 430 Wainut/Street	Residence: 235 Dewberry Drive	
Lake Jackson, Texas 77566	Residence: 235 Dewnerry Drive	
Country: United States of America	Lake Jackson, Texas 77566	
Citizenship: Canada	Country: United States of America	ļ
P.O. Address: Same as Residence	Citizenship: United States of America	1
Employed By: The Dow Chemical Company	P.O. Address: Same as Residence	
Of Country: United States of America	Employed By: The Dow Chemical Company	
	Of Country: United States of America	
At:		
this day of 20	At:	_
Effective as of December 27, 2012	this day of	-
Effective as of December 27, 2012	1,20	-
Signature:		1
Full Name: Philip P. Fontaine	Signature:	1
Residence: 922 W. 18th St.	Full Name:	.
Mesonetice, 922 W. 1818 St.	Residence;	1
Houston, Texas 77008		!
Country: United States of America	Country;	
Citizenship: United States of America	Citizenship:	ı
P.O. Address: Same as Residence	P.O. Address:	ļ
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readings, addresses and signatures to be attached to Fo	CASE NO. 71459-L
	CASE NO. 71459-L
this day of	this 25 daylof to my Marca 20 5
Effective as of December 27, 2012	At: WICH WICH A CONTROL OF THE CONTR
Signature:	
Full Name: Sylvie Desjardins	Signature: Work
Paridonas 420 IV.1 - 0	Triti Name: Mridula Kaner
Residence: 430 Walnut Street	Residence: 235 Dewberry Drive
Lake Jackson, Texas 77566	Lake Jackson, Texas 77566
Country: United States of America	Country: United States of America
Citizenship: Canada	Citizenchia Metad Contact Cont
P.O. Address: Same as Residence	Citizenship: United States of America INDIA
Employed By: The Dow Chemical Company	P.O. Address: Same as Residence
Of Country: United States of America	Employed By: The Dow Chemical Company
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At:	At:
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Effective as of December 27, 2012	this day of, 20
27, 2012	
Signature:	l la
Full Name: Philip P. Fontaine	Signature:
Desidence And M. Louis	Full Name:
Residence: 922 W. 18th St.	Residence:
Houston, Texas 77008	
Country: United States of America	[ Country
Citizenship: United States of America	Country:
P.O. Address: Same as Residence	Citizenship:
Employed By: The Dow Chemical Company	P.O. Address:
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This Assigner 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

hereby accept the ASSIGNMENT attached hereto which is dated: January 9, 2013; January 9, 2013; January 2, 2013; January 7, 2013; January 3, 2013; January 25, 2013; and January 14, 2013, respectively; effective as of December 27, 2012

From, the ASSIGNOR: Jerzy Klosin, 2209 Parkwood Drive, Midland, Michigan 48642, United States of America, Citizen of Poland; Ruth Figueroa, 1490 Riverchase, Midland, Michigan 48640, United States of America, Citizen of United States of America; Pulikkottil J. Thomas, 4310 Andre Street, Midland, Michigan 48642, United States of America, Citizen of United States of America; Mehmet Demirors, 2319 Bending Spring Dr., Pearland, Texas 77584, United States of America, Citizen of Netherlands; Sylvie Desjardins, 430 Walnut Street, Lake Jackson, Texas 77566, United States of America, Citizen of Canada; Mridula Kapur, 235 Dewberry Drive, Lake Jackson, Texas 77566, United States of America, Citizen of United States of America; and Philip P. Fontaine, 922 W. 18th St., Houston, Texas 77008, United States of America, Citizen of United States of America

of the invention entitled:

Signed at

CATALYST SYSTEMS FOR OLEFIN POLYMERIZATION

Midland, Michigan 48674, 11SA

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.

	Hara took to ook		
this day of _	February, 2013		
CORP. DOW GLOBAL TECHNOLOGIES LLC			
SEAL	By: Nuram Moller Zerull		
	Susan M. Zerull Authorized Representative		
NOTAR	IAL CERTIFICATE (Corporation)		
UNITED STATES OF	'AMERICA )		

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

On this day of February, 2013, 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 Limited Liability Company incorporated under the laws of **Delaware**.

I further certify that said authority, dated June 1, 2012, 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

Reference Saw Bellieranhand

Research Sur Hallingshead ROTARY PUBLIC, MICLAND COUNTY, MICHIGAN MY COMMISSION EXPIRES November 25, 2018

> PATENT REEL: 035667 FRAME: 0381

**RECORDED: 05/19/2015**