504319712 04/13/2017

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

EPAS ID: PAT4366394

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
MR. MARK H. MCADON	05/29/2012
MS. LIPING ZHANG	05/11/2012
MR. ERNEST R. FRANK	05/11/2012

RECEIVING PARTY DATA

Name:	THE DOW CHEMICAL COMPANY
Street Address:	2030 DOW CENTER
City:	MIDLAND
State/Country:	MICHIGAN
Postal Code:	48674

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	14366058

CORRESPONDENCE DATA

Fax Number: (248)504-4213

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: 248-504-4849

Email: srh@hanseniplaw.com

Correspondent Name: HANSEN IP LAW PLLC

Address Line 1:

Address Line 1: P.O. BOX 300069

Address Line 4: WATERFORD, MICHIGAN 48330

ATTORNEY DOCKET NUMBER:	71486-US-PCT (5011-0089)
NAME OF SUBMITTER:	STEVEN R. HANSEN
SIGNATURE:	/Steven R. Hansen/
DATE SIGNED:	04/13/2017

Total Attachments: 3

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PATENT 504319712 REEL: 041996 FRAME: 0585

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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: METHOD OF FORMULATING ALKYLENE OXIDE CATALYST IN RELATION TO CATALYST REFERENCE PROPERTIES

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:

The Dow Chemical Company 2030 Dow Center Midland, Michigan 48674 United States of America

a corporation 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

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Priority Number	Filing Date	Filing Country
61/577,219	December 19, 2011	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 Assignce; 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, Michigan 48674 USA	At:	
this 29 day of 1/4 .20 12	this day of	, 20
Effective as of December 19, 2011	Effective as of December 19, 2011	
Signature Jumb Malon	Signature:	
Full Name: Mark H. McAdon	Full Name: Liping Zhang	
Residence: 705 Stillmeadow Ln	Residence: 306 Arrowhead Dr.	
Midland, Michigan 48642-3389	Lake Jackson, Texas, 77566	
Country: United States of America	Country: United States of America	
Citizenship: United States of America	Citizenship: United States of America	
P.O. Address: Same as Residence	P.O. Address: Same as Residence	
Employed By: The Dow Chemical Company	Employed By: The Dow Chemical Company	
Of Country: United States of America		
or country. Crimes Diffico Di America	Of Country: United States of America	
	Of Country: United States of America	
At:	At:	
At:		, 20
At:	At	, 20
At: this day of , 20 Effective as of December 19, 2011	At	, 20
At: this day of , 20 Effective as of December 19, 2011 Signature:	At	, 20
At:	At	, 20
At: this day of , 20 Effective as of December 19, 2011 Signature: Full Name: Ernest R. Frank Residence: 741 Hess Drive Charleston, West Virginia 25311	At	
At: this day of , 20 Effective as of December 19, 2011 Signature: Full Name: Ernest R. Frank Residence: 741 Hess Drive Charleston, West Virginia 25311 Country: United States of America	At	, 20
At: this day of , 20 Effective as of December 19, 2011 Signature: Full Name: Ernest R. Frank Residence: 741 Hess Drive Charleston, West Virginia 25311 Country: United States of America Citizenship: Einted States of America	At this day of Signature: Full Name: Residence Country: Citizenship:	, 20
At: this day of , 20 Effective as of December 19, 2011 Signature: Full Name: Ernest R, Frank Residence: 741 Hess Drive Charleston, West Virginia 25311 Country: United States of America Citizenship: Limted States of America P.O. Address: Same as Residence	At this day of Signature: Full Name: Residence Country:	_, 20
At: this day of , 20 Effective as of December 19, 2011 Signature: Full Name: Ernest R. Frank Residence: 741 Hess Drive Charleston, West Virginia 25311 Country: United States of America Citizenship: Einted States of America	At this day of Signature: Full Name: Residence Country: Citizenship:	_ , 20

() Additional names and signatures are attached

FORM 110 (R 5/97)

INDIVIDUAL ASSIGNMENT AND INVENTOR'S DECLARATION

(with Priority Rights)

l/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: METHOD OF FORMULATING ALKYLENE OXIDE CATALYST IN RELATION TO CATALYST REFERENCE PROPERTIES

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:

The Dow Chemical Company

2030 Dow Center

Midland, Michigan 48674 United States of America

a corporation 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
61/577,219	December 19, 2011	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, Michigan 48674 USA	At: <u>FreeDort</u> , Jexas 7/54/US
this, 20	this
Effective as of December 19, 2011	Effective as of December 19, 2011
Signature:	Signature: 47 37
Full Name: Mark H. McAdon	Full Name: Liping Zhang
Residence: 705 Stillmeadow Ln	Residence: 306 Arrowhead Dr.
Midland, Michigan 48642-3389	Lake Jackson, Texas 77566
Country: United States of America	Country: United States of America
Citizenship: United States of America	Citizenship: United States of America
P.O. Address: Same as Residence	P.O. Address: Same as Residence
Employed By: The Dow Chemical Company	Employed By: The Dow Chemical Company
Of Country: United States of America	Of Country: United States of America
At: Freeport, V	At:
this day of NAY, 20 2	this day of , 20
Effective as of December 19, 2011	**************************************
Signature: St W	Signature:
Full Name: Ernest R. Frank	Full Name:
Residence: 514 That Way #1111	Residence:
Lake Jackson, TX 77566	
Country: United States of America	Country:
law is the tall of	Citizenship:
Citizenship: United States of America	Citizensing.
P.O. Address: Same as Residence	P.O. Address:
P.O. Address: Same as Residence	P.O. Address:

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●660 ● 660

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:

THE DOW CHEMICAL COMPANY

2030 Dow Center

Midland, Michigan 48674, USA

this 12 day of September, 2012

Midland, Michigan 48674 United States of America

hereby accept the ASSIGNMENT attached hereto which is dated: May 11, 2012 and May 29, 2012, respectively

From, the ASSIGNOR: Mark H. McAdon, 705 Stillmeadow Ln, Midland, Michigan 48642-3389, United States of America, Citizen of United States of America; Liping Zhang, 306 Arrowhead Dr., Lake Jackson, Texas 77566, United States of America, Citizen of United States of America; and Ernest R. Frank, 741 Hess Drive, Charleston, West Virginia 25311, United States of America, Citizen of United States of America

of the invention entitled:

METHOD OF FORMULATING ALKYLENE OXIDE CATALYST IN RELATION TO CATALYST REFERENCE PROPERTIES

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.

Fig. 500	
	THE DOW CHEMICAL COMPANY
CORP	107
Shal	By:
	DARRYL P. FRICKEY
	Assistant General Counsel – IP Law
NOTARIAL	CERTIFICATE (Corporation)
UNITED STATES OF AME	ERICA)
STATE OF MICHIGAN) SS
County/Parish of Midland)
On this 12 day of S	
	XEY, Assistant General Counsel - IP Law,
	e individual described in and who executed the foregoing document ree act and deed for uses and purposes therein expressed by
	ncorporated under the laws of the State of Delaware, United
States of America.	,

I further certify that said authority, dated April 6, 2011, is based on

a Certified Resolution

which I have seen, appointing the said individual Assistant General Counsel – IP Law 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

NOTARY PUBLIC, MICHAED COUNTY, MIGHIGAN MY COMMISSION EXPIRES APRIL 07, 2018

RECORDED: 04/13/2017

PATENT REEL: 041996 FRAME: 0588