PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT2819258

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
MS. LIPING ZHANG	06/23/2011
MR. HWAILI SOO	06/30/2011

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:	14005717	

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 via

US Mail.

Phone: 248-504-4849

Email: srh@hanseniplaw.com
Correspondent Name: HANSEN IP LAW PLLC
Address Line 1: P.O. BOX 300069

Address Line 4: WATERFORD, MICHIGAN 48330

ATTORNEY DOCKET NUMBER: 68770-US-PCT (5011-0076)			
NAME OF SUBMITTER:	STEVEN R. HANSEN		
SIGNATURE:	/Steven R. Hansen/		
DATE SIGNED:	04/17/2014		

Total Attachments: 5

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> PATENT REEL: 032702 FRAME: 0078

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

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: PROCESS FOR CONDITIONING A HIGH EFFICIENCY ALKYLENE OXIDE CATALYST

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). Uwe 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 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
61/473,949	April 11, 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:

Al: Freeport, Texas	At:	
this <u>23</u> day of <u>June</u> , 20 11	this day of	, 20
Effective as of April 11, 2011	Effective as of April 11, 2011	
0\ 1		
Signature: 2	Signature:	
Full Name: Liping Zhang	Full Name: Hwaili Soo	
Residence: 306 Arrowhead Dr.	Residence: 116 East Ridge Road	
Lake Jackson, Texas 77566	Charleston, West Virginia 25314	
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:	At:	
this day of, 20		, 20
Effective as of	Effective as of	
	1	
Signature:	Signature:	
Full Name:	Full Name:	
Full Name: Residence:		
Residence:	Full Name: Residence:	
Residence: Country:	Full Name: Residence: Country:	
Residence: Country: Citizenship: United States of America	Full Name: Residence: Country: Citizenship: United States of America	
Residence: Country: Citizenship: United States of America P.O. Address:	Full Name: Residence: Country: Citizenship: United States of America P.O. Address:	
Residence: Country: Citizenship: United States of America P.O. Address: Employed By:	Full Name: Residence: Country: Citizenship: United States of America P.O. Address: Employed By:	
Residence: Country: Citizenship: United States of America P.O. Address:	Full Name: Residence: Country: Citizenship: United States of America P.O. Address:	

() Additi

NOTARIAL CERTIFICATE (Individual)

UNITED STATES OF AMERICA)
STATE OF TEXAS) SS
County/Parish of Grazeria)
STATE OF TEXAS) SS County/Parish of Brateria) On this 3 day of
known or identified to me to be the individual described in and who executed the foregoing documen
and acknowledged the same as a free act and deed for uses and purposes therein expressed.
SEAL TAMMY TIPPS Notary Public, State of Texas My Commission Expires April 10, 2014
NOTARIAL CERTIFICATE (Individual)
UNITED STATES OF AMERICA) STATE OF) SS County/Parish of)
On this day of, 20, personally appeared before me
Hwaili Soo
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.
SEAL

This Assignment 110 is in the ENGLISH language and has the same meaning in other languages with the same 110 num

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: PROCESS FOR CONDITIONING A HIGH EFFICIENCY ALKYLENE OXIDE CATALYST

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 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	
61/473,949	April 11, 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 encurnbered by any grant, license, or other right heretofore given.

Subscribed and Declared by me/us:

At:	At: Charleston, WV
this day of , 20	this 3-th day of June ,20 11
Effective as of April 11, 2011	Effective as of April 11, 2011
	n = C
Signature:	Signature:
Full Name: Liping Zhang	Full Name: Hwadi Soo
Residence: 306 Arrowhead Dr.	Residence: 116 East Ridge Road
Lake Jackson, Texas 77566	Charleston, West Virginia 25314
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
	ra.
At:	At:
this, 20	this, 20
Effective as of	Effective as of
_a ,	
Signature:	Signature:
Full Name:	Full Name:
Residence:	Residence:
Country:	Country:
Citizenship: United States of America	Citizenship: United States of America
P.O. Address:	P.O. Address:
Employed By:	Employed By:
Of Country:	Of Country:

() Additional names and signatures are attached.

PATENT REEL: 032702 FRAME: 0081 This Assignment 220 is in the ENGLISH language and has the same meaning in other languages with the same 220 number and R/Deta.

**This Assignment 220 is in the ENGLISH language and has the same meaning in other languages with the same 220 number and R/Deta.

This Assignment 220 is in the ENGLISH language and has the same meaning in other languages with the same 220 number and R/Deta

FORM 220

NOTARIAL CERTIFICATE (Individual)

UNITED STA	ATES OF AMER	ICA)) SS		
County/Parisl	n of)		
On this	day of			, personally appeared before me,
		Liping	Zhang	
				o executed the foregoing document poses therein expressed.
SEAL				
	NO	PADIAI CEDT	IEICATE (I	dividual)
	NO	TARIAL CERT	IFICATE (III	dividual)
STATE OF County/Parish) SS)		
On this 35*	day of Jun		, 20 <u>11</u>	, personally appeared before me,
		the individual desc	ribed in and wh	o executed the foregoing document poses therein expressed.
SEAL			Jan	
JONATH NO STATE (707) Charles	FICIAL SEAL IAN E. SYNER TARY PUBLIC FO WEST VIRGINIA Arginia Street East Ion, WY 25301-2705 Ion Expires Nov 16, 2017			

This Assignee Acceptance 660 is in the ENGLISH language and has the same meaning in other languages with the same 660 number.

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 United States of America

hereby accept the ASSIGNMENT attached hereto which is dated: June 23, 2011 and June 30, 2011

From, the ASSIGNOR: Liping Zhang, 306 Arrowhead Dr., Lake Jackson, Texas 77566, United States of America, Citizen of United States of America, and Hwaili Soo, 116 East Ridge Road, Charleston, West Virginia 25314, United States of America, Citizen of United States of America

of the invention entitled:

PROCESS FOR CONDITIONING A HIGH EFFICIENCY ALKYLENE OXIDE CATALYST

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 13th	day of	January	, 20 <u>/)</u>		
	* .	\int			
PACE TO SE	· ·	THE DOW CH	HEMICAL COMI	PANY	
COR	P.		. ~ —		
SEA	L	By:	2-1P. J	`	
			P. FRICKEY General Counsel –	- IP Law	

NOTARIAL CERTIFICATE (Corporation)

UNITED STATES OF AMERICA)
STATE OF MICHIGAN) SS
County/Parish of Midland)
On this 13th day of Jan	nuary, 2012, personally appeared
before me, DARRYL P. FRICKEY, Assistant General Counsel - IP Law,	
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 Corporation incorporated 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

Rebucca Sue Hollingshou?

NOTARY PUBLIC, WILLIAG COUNTY, MICHA!!
MY COULTS ON EXPLRES NOVEMBER 25, 2012

PATENT REEL: 032702 FRAME: 0083

tollengs herea

RECORDED: 04/17/2014