

PATENT ASSIGNMENT COVER SHEET

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Stylesheet Version v1.2

EPAS ID: PAT2896144

SUBMISSION TYPE:	NEW ASSIGNMENT						
NATURE OF CONVEYANCE:	ASSIGNMENT						
CONVEYING PARTY DATA							
<table border="1"><thead><tr><th>Name</th><th>Execution Date</th></tr></thead><tbody><tr><td>MR. HWAILI SOO</td><td>06/17/2010</td></tr><tr><td>MR. YUJUN LIU</td><td>06/21/2010</td></tr></tbody></table>	Name	Execution Date	MR. HWAILI SOO	06/17/2010	MR. YUJUN LIU	06/21/2010	
Name	Execution Date						
MR. HWAILI SOO	06/17/2010						
MR. YUJUN LIU	06/21/2010						
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							
<table border="1"><thead><tr><th>Property Type</th><th>Number</th></tr></thead><tbody><tr><td>Application Number:</td><td>12974439</td></tr></tbody></table>	Property Type	Number	Application Number:	12974439			
Property Type	Number						
Application Number:	12974439						
CORRESPONDENCE DATA							
Fax Number:	(248)504-4213						
<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>							
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:	67803-US-NP (5011-0018)						
NAME OF SUBMITTER:	STEVEN R. HANSEN						
SIGNATURE:	/Steven R. Hansen/						
DATE SIGNED:	06/12/2014						
Total Attachments: 5 source=TDCC_Assignee#page1.tif source=TDCC_Assignee#page2.tif source=TDCC_Assignee#page3.tif source=TDCC_Assignee#page4.tif source=TDCC_Assignee#page5.tif							

502849547

PATENT
REEL: 033091 FRAME: 0484

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

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: **METHOD OF CONTROLLING SILVER CHLORIDE FORMATION ON A SILVER CATALYST IN AN ETHYLENE OXIDE PROCESS BY CONTROLLING FEED SULFUR CONTENT**

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
61/290,357	December 28, 2009	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: <u>Charleston, WV</u> this <u>17th</u> day of <u>June</u> , 20 <u>10</u> Effective as of December 28, 2009 Signature: <u>[Signature]</u> Full Name: <u>Hwaiii Soo</u> Residence: <u>116 East Ridge Road</u> <u>Charleston, West Virginia 25314</u> Country: <u>United States of America</u> Citizenship: <u>United States of America</u> P.O. Address: <u>Same as Residence</u> Employed By: <u>The Dow Chemical Company</u> Of Country: <u>United States of America</u>

At: _____ this _____ day of _____, 20____ Effective as of December 28, 2009 Signature: _____ Full Name: <u>Yujun Liu</u> Residence: <u>3010 Chance Ct.</u> <u>Pearland, Texas 77584</u> Country: <u>United States of America</u> Citizenship: <u>United States of America</u> P.O. Address: <u>Same as Residence</u> Employed By: <u>The Dow Chemical Company</u> Of Country: <u>United States of America</u>
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At: _____ this _____ day of _____, 20____ Effective as of _____ Signature: _____ Full Name: _____ Residence: _____ Country: _____ Citizenship: _____ P.O. Address: _____ Employed By: _____ Of Country: _____

At: _____ this _____ day of _____, 20____ Effective as of _____ Signature: _____ Full Name: _____ Residence: _____ Country: _____ Citizenship: _____ P.O. Address: _____ Employed By: _____ Of Country: _____

() Additional names and signatures are attached.

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



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

FORM 220

NOTARIAL CERTIFICATE (Individual)

UNITED STATES OF AMERICA)
STATE OF WEST VIRGINIA) SS
County/Parish of KANAWHA)

On this 17th day of JUNE, 20 10, personally appeared before me,
Hwaii 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.



NOTARIAL CERTIFICATE (Individual)

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

On this _____ day of _____, 20 _____, personally appeared before me,
Yujun Liu

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 220 is in the ENGLISH language and has the same meaning in other languages with the same 220 number and R/Date.

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

FORM 220

NOTARIAL CERTIFICATE (Individual)

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

On this _____ day of _____, 20____, personally appeared before me,
Hwaii 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

NOTARIAL CERTIFICATE (Individual)

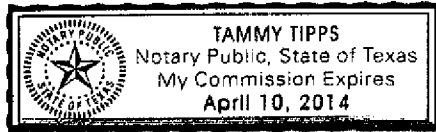
UNITED STATES OF AMERICA)
STATE OF *Texas*) SS
County/Parish of *Brazoria*)

On this 21 day of June, 2010, personally appeared before me,
Yujun Liu

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

Tammy Tipps



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 17, 2010; June 21, 2010**

From, the ASSIGNOR: Hwaili Soo, 116 East Ridge Road, Charleston, West Virginia 25314, United States of America, Citizen of United States of America and Yujun Liu, 3010 Chance Ct., Pearland, Texas 77584, United States of America, Citizen of United States of America

of the invention entitled:

METHOD OF CONTROLLING SILVER CHLORIDE FORMATION ON A CONTROLLING FEED SULFUR CONTENT

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 11 day of January, 20 11

CORP.
SEAL

THE DOW CHEMICAL COMPANY

By: Michael L. Glenn
MICHAEL L. GLENN
Authorized Representative

NOTARIAL CERTIFICATE (Corporation)

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

On this 11 day of January, 20 11, personally appeared before me, **MICHAEL L. GLENN, 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 Corporation incorporated under the laws of the **State of Delaware, United States of America**.

I further certify that said authority, dated **February 9, 2006**, is based on **an authority of a Resolution by the Board of Directors**

which I have seen, appointing the said individual Authorized Representative 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.

Kathy Sue Wertz
SEAL

Kathy Sue Wertz
NOTARY PUBLIC, MIDLAND COUNTY, MICHIGAN
MY COMMISSION EXPIRES APRIL 07, 2012

PATENT