

# PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
Stylesheet Version v1.2

EPAS ID: PAT2896087

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
MR. WILLIAM H. HENSTOCK	06/18/2010
MS. JULIANA G. SERAFIN	06/18/2010
MR. ALBERT C. LIU	06/28/2010
MR. MANUK COLAKYAN	11/23/2010
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	UNION CARBIDE CHEMICALS & PLASTICS TECHNOLOGY LLC
<b>Street Address:</b>	2020 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:	12974439
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(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>	
<b>Phone:</b>	248-504-4849
<b>Email:</b>	srh@hanseniplaw.com
<b>Correspondent Name:</b>	HANSEN IP LAW PLLC
<b>Address Line 1:</b>	P.O. BOX 300069
<b>Address Line 4:</b>	WATERFORD, MICHIGAN 48330
<b>ATTORNEY DOCKET NUMBER:</b>	67803-US-NP (5011-0018)
<b>NAME OF SUBMITTER:</b>	STEVEN R. HANSEN
<b>SIGNATURE:</b>	/Steven R. Hansen/
<b>DATE SIGNED:</b>	06/12/2014
<b>Total Attachments: 10</b>	
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**PATENT**  
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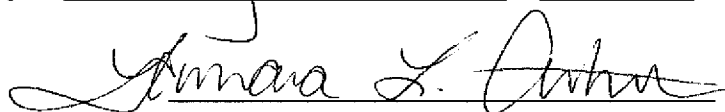
**TRUE COPY**

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 Midland, Michigan 48674, USA

this 24<sup>th</sup> day of May 2011



Paralegal  
THE DOW CHEMICAL COMPANY

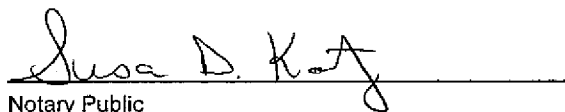
**NOTARIAL CERTIFICATE**

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

On this 24<sup>th</sup> day of May 2011, personally  
appeared before me,

**Tamara L. Arthur**

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

SUSAN D. KROTZER  
NOTARY PUBLIC, MIDLAND, MI  
ACTING IN MIDLAND COUNTY  
MY COMMISSION EXPIRES: MARCH 07, 2015



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

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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 CONTROLLING SILVER CHLORIDE FORMATION ON A SILVER CATALYST IN AN ETHYLENE OXIDE PROCESS BY CONTROLLING FED 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:

**Union Carbide Chemicals & Plastics Technology LLC**  
2020 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: Charleston, WV  
this 18<sup>th</sup> day of June, 20 10  
Effective as of December 28, 2009

Signature: William H. Henstock  
Full Name: William H. Henstock  
Residence: 903 Spring Road  
Charleston, West Virginia 25314  
Country: United States of America  
Citizenship: United States of America  
P.O. Address: Same as Residence  
Employed By: Union Carbide Chemicals & Plastics  
Technology LLC  
Of Country: United States of America

At: \_\_\_\_\_  
this \_\_\_\_\_ day of \_\_\_\_\_, 20 \_\_\_\_  
Effective as of December 28, 2009

Signature: \_\_\_\_\_  
Full Name: Juliana G. Serafin  
Residence: 1534 Quarrier Street  
Charleston, West Virginia 25311  
Country: \_\_\_\_\_  
Citizenship: United States of America  
P.O. Address: Same as Residence  
Employed By: Union Carbide Chemicals & Plastics  
Technology LLC  
Of Country: United States of America

At: \_\_\_\_\_  
this \_\_\_\_\_ day of \_\_\_\_\_, 20 \_\_\_\_  
Effective as of December 28, 2009

Signature: \_\_\_\_\_  
Full Name: Albert C. Liu  
Residence: 1534 Quarrier Street  
Charleston, West Virginia 25311  
Country: United States of America  
Citizenship: United States of America  
P.O. Address: Same as Residence  
Employed By: Union Carbide Chemicals & Plastics  
Technology LLC  
Of Country: United States of America

At: \_\_\_\_\_  
this \_\_\_\_\_ day of \_\_\_\_\_, 20 \_\_\_\_  
Effective as of December 28, 2009

Signature: \_\_\_\_\_  
Full Name: Manuk Colakyan  
Residence: 2799 Ranch Road  
South Charleston, West Virginia 25303  
Country: United States of America  
Citizenship: United States of America  
P.O. Address: Same as Residence  
Employed By: Union Carbide Chemicals & Plastics  
Technology LLC  
Of Country: United States of America

( ) 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.

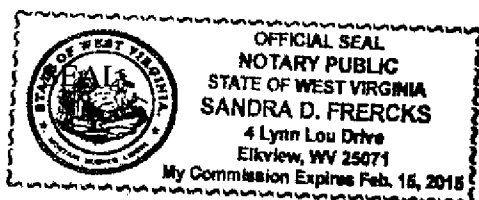
FORM 220

## NOTARIAL CERTIFICATE (Individual)

UNITED STATES OF AMERICA )  
 STATE OF West Virginia ) SS  
 County/Parish of Kanawha )

On this 18<sup>th</sup> day of June, 2010, personally appeared before me,  
 William H. Henstock

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.



Sandra D Frercks

## NOTARIAL CERTIFICATE (Individual)

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

On this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_, personally appeared before me,  
 Juliana G. Serafin

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 ) SS  
 County/Parish of )

On this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_, personally appeared before me,  
 Albert C. 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 110 is in the ENGLISH language and has the same meaning in other languages with the same 110 number and R/Date

## 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 FED 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:

**Union Carbide Chemicals & Plastics Technology LLC**  
2020 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 recording 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 28, 2009

Signature: \_\_\_\_\_  
Full Name: William H. Henstock  
Residence: 903 Spring Road  
Charleston, West Virginia 25314  
Country: United States of America  
Citizenship: United States of America  
P.O. Address: Same as Residence  
Employed By: Union Carbide Chemicals & Plastics  
Technology LLC  
Of Country: United States of America

At: Charleston WV  
this 18th day of June, 20 10  
Effective as of December 28, 2009

Signature: Juliana G. Srafin  
Full Name: Juliana G. Srafin  
Residence: 1534 Quarrier Street  
Charleston, West Virginia 25311  
Country: \_\_\_\_\_  
Citizenship: United States of America  
P.O. Address: Same as Residence  
Employed By: Union Carbide Chemicals & Plastics  
Technology LLC  
Of Country: United States of America

At: \_\_\_\_\_  
this \_\_\_\_\_ day of \_\_\_\_\_, 20 \_\_\_\_\_  
Effective as of December 28, 2009

Signature: \_\_\_\_\_  
Full Name: Albert C. Liu  
Residence: 1534 Quarrier Street  
Charleston, West Virginia 25311  
Country: United States of America  
Citizenship: United States of America  
P.O. Address: Same as Residence  
Employed By: Union Carbide Chemicals & Plastics  
Technology LLC  
Of Country: United States of America

At: \_\_\_\_\_  
this \_\_\_\_\_ day of \_\_\_\_\_, 20 \_\_\_\_\_  
Effective as of December 28, 2009

Signature: \_\_\_\_\_

Full Name: Manuk Colakyan  
Residence: 2799 Ranch Road  
South Charleston, West Virginia 25303  
Country: United States of America  
Citizenship: United States of America  
P.O. Address: Same as Residence  
Employed By: Union Carbide Chemicals & Plastics  
Technology LLC  
Of Country: United States of America

☐ Additional names and signatures are attached.

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FORM 220

## NOTARIAL CERTIFICATE (Individual)

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

On this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_, personally appeared before me,  
 William H. Henstock

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.

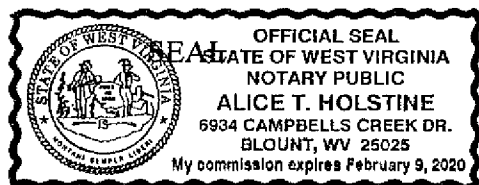
SEAL

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

On this 18<sup>th</sup> day of June, 20 10, personally appeared before me,  
 Juliana G. Serafin

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## NOTARIAL CERTIFICATE (Individual)

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

On this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_, personally appeared before me,  
 Albert C. Liu

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FORM 110 (R 5/97)

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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:

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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

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Subscribed and Declared by me/us:

At: \_\_\_\_\_  
this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_  
Effective as of December 28, 2009

Signature: \_\_\_\_\_  
Full Name: William H. Henstock  
Residence: 903 Spring Road  
Charleston, West Virginia 25314  
Country: United States of America  
Citizenship: United States of America  
P.O. Address: Same as Residence  
Employed By: Union Carbide Chemicals & Plastics  
Technology LLC  
Of Country: United States of America

At: \_\_\_\_\_  
this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_  
Effective as of December 28, 2009

Signature: \_\_\_\_\_  
Full Name: Juliana G. Serafin  
Residence: 1534 Quarrier Street  
Charleston, West Virginia 25311  
Country: \_\_\_\_\_  
Citizenship: United States of America  
P.O. Address: Same as Residence  
Employed By: Union Carbide Chemicals & Plastics  
Technology LLC  
Of Country: United States of America

At: South Charleston, WV  
this 28 day of June, 2010  
Effective as of December 28, 2009

Signature: [Signature]  
Full Name: Albert C. Liu  
Residence: 1534 Quarrier Street  
Charleston, West Virginia 25311  
Country: United States of America  
Citizenship: United States of America  
P.O. Address: Same as Residence  
Employed By: Union Carbide Chemicals & Plastics  
Technology LLC  
Of Country: United States of America

At: \_\_\_\_\_  
this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_  
Effective as of December 28, 2009

Signature: \_\_\_\_\_  
Full Name: Manuk Colakyan  
Residence: 2799 Ranch Road  
South Charleston, West Virginia 25303  
Country: United States of America  
Citizenship: United States of America  
P.O. Address: Same as Residence  
Employed By: Union Carbide Chemicals & Plastics  
Technology LLC  
Of Country: United States of America

( ) Additional names and signatures are attached.



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FORM 220

SEAL

SEAL

SEAL

Nita J. Dunlap

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FORM 110 (R 5/97)

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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

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Subscribed and Declared by me/us:

At: \_\_\_\_\_  
this \_\_\_\_\_ day of \_\_\_\_\_, 20 \_\_\_\_\_  
Effective as of December 28, 2009

Signature: \_\_\_\_\_  
Full Name: William H. Henstock  
Residence: 903 Spring Road  
Charleston, West Virginia 25314  
Country: United States of America  
Citizenship: United States of America  
P.O. Address: Same as Residence  
Employed By: Union Carbide Chemicals & Plastics  
Technology LLC  
Of Country: United States of America

At: \_\_\_\_\_  
this \_\_\_\_\_ day of \_\_\_\_\_, 20 \_\_\_\_\_  
Effective as of December 28, 2009

Signature: \_\_\_\_\_  
Full Name: Juliana G. Serafin  
Residence: 1534 Quarrier Street  
Charleston, West Virginia 25311  
Country: \_\_\_\_\_  
Citizenship: United States of America  
P.O. Address: Same as Residence  
Employed By: Union Carbide Chemicals & Plastics  
Technology LLC  
Of Country: United States of America

At: \_\_\_\_\_  
this \_\_\_\_\_ day of \_\_\_\_\_, 20 \_\_\_\_\_  
Effective as of December 28, 2009

Signature: \_\_\_\_\_  
Full Name: Albert C. Liu  
Residence: 1534 Quarrier Street  
Charleston, West Virginia 25311  
Country: United States of America  
Citizenship: United States of America  
P.O. Address: Same as Residence  
Employed By: Union Carbide Chemicals & Plastics  
Technology LLC  
Of Country: United States of America

At: South Charleston, WV  
this 23rd day of November, 20 10  
Effective as of December 28, 2009

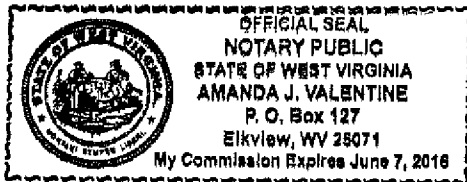
Signature: Manuk Colakyan  
Full Name: Manuk Colakyan  
Residence: 2799 Ranch Road  
South Charleston, West Virginia 25303  
Country: United States of America  
Citizenship: United States of America  
P.O. Address: Same as Residence  
Employed By: Union Carbide Chemicals & Plastics  
Technology LLC  
Of Country: United States of America

( ) Additional names and signatures are attached.

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

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Amanda S. Valentine



[illegible]

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

**PATENT**  
*Jane M. Neitzel*  
 NC **REEL: 033091 FRAME: 0245**