

PATENT ASSIGNMENT

Electronic Version v1.1

Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT														
NATURE OF CONVEYANCE:	ASSIGNMENT														
CONVEYING PARTY DATA															
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 70%;">Name</th> <th style="width: 30%;">Execution Date</th> </tr> </thead> <tbody> <tr> <td>William J. Kruper</td> <td>09/15/2007</td> </tr> <tr> <td>David J. Schreck</td> <td>07/03/2007</td> </tr> <tr> <td>Richard D. Varjian</td> <td>07/23/2007</td> </tr> <tr> <td>Bruce D. Hook</td> <td>08/08/2007</td> </tr> <tr> <td>John Briggs</td> <td>08/14/2007</td> </tr> <tr> <td>Robert M. Campbell</td> <td>08/15/2007</td> </tr> </tbody> </table>		Name	Execution Date	William J. Kruper	09/15/2007	David J. Schreck	07/03/2007	Richard D. Varjian	07/23/2007	Bruce D. Hook	08/08/2007	John Briggs	08/14/2007	Robert M. Campbell	08/15/2007
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CORRESPONDENCE DATA															
<p>Fax Number: (989)636-3237</p> <p><i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Phone: 989-636-0960</p> <p>Email: plkipfmiller@dow.com</p> <p>Correspondent Name: Pattie Kipfmiller</p> <p>Address Line 1: The Dow Chemical Company</p> <p>Address Line 2: 2040 Dow Center</p> <p>Address Line 4: Midland, MICHIGAN 48674</p>															
ATTORNEY DOCKET NUMBER:	63802C CIP1														

CH \$40.00 11710010

501437528

PATENT
REEL: 025804 FRAME: 0182

NAME OF SUBMITTER:

Pattie Kipfmiller

Total Attachments: 5

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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:

A PROCESS FOR THE CONVERSION OF A CRUDE GLYCEROL, CRUDE MIXTURES OF NATURALLY DERIVED MULTICOMPONENT ALIPHATIC HYDROCARBONS OR ESTERS THEREOF TO A CHLOROHYDRIN

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 **State of DELAWARE, U.S.A.**

(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

Application No. 60/589683 Filing Date July 21, 2004

in country the 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; and I/we do hereby authorize Assignee or its designee (or nominee(s)) to insert here any corresponding equivalent

Application No. 11/710,010 Filing Date February 22, 2007

in country the United States of America

to the above Priority application of any country where that country's patent property must be identified and entered hereinabove for recordal of this Assignment. 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: **Freeport, Texas 77541 USA**
this 8 day of August, 2007
Effective as of February 22, 2007
Signature: [Signature]
Full Name: **Bruce D. Hook**
Residence: **107 Banyan Drive**
Lake Jackson, Texas 77566
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: **Midland, Michigan 48674 USA**
this 14 day of August, 2007
Effective as of February 22, 2007
Signature: [Signature]
Full Name: **John Briggs**
Residence: **1715 Sylvan Lane**
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: **Midland, Michigan 48674 USA**
this 15 day of August, 2007
Effective as of February 22, 2007
Signature: [Signature]
Full Name: **Robert M. Campbell**
Residence: **2801 Saint Marys Drive**
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: **Midland, Michigan 48674 USA**
this 15 day of Sept, 2007
Effective as of February 22, 2007
Signature: [Signature]
Full Name: **William J. Kruper Jr.**
Residence: **230 Barden Road**
Sanford, Michigan 48657
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**

(X) Additional names and signatures are attached.

At: Hutchinson, MN USA
 this 23 day of July 2007
 Effective as of February 22, 2009

Signature: Richard D. Varjian
 Full Name: **Richard D. Varjian**
 Residence: **710 Colorado Street Northwest
 Hutchinson, Minnesota 55350**

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: _____
this _____ day of _____ 20____

Signature: _____
Full Name: _____
Residence: _____

Country:
Citizenship:
P. O. Address:
Employed By:
Of Country:

At: _____
this _____ day of _____ 20____

Signature: _____
Full Name: _____
Residence: _____

Country:
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At: _____
this _____ day of _____ 20____

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Full Name: _____
Residence: _____

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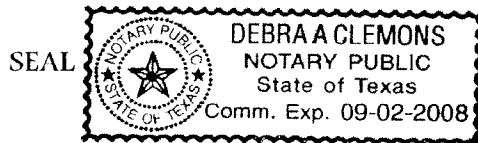
NOTARIAL CERTIFICATE (INDIVIDUAL)

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

On this 8th day of August, 2007, personally appeared

Bruce D. Hook

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.



Helena A. Gersons
Notary Public

NOTARIAL CERTIFICATE (INDIVIDUAL)

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

On this 14th day of August, 2007, personally appeared

John Briggs

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

Brenda J. Maida
Notary Public
BRENDA J. MAIDA
NOTARY PUBLIC, STATE OF MI
COUNTY OF GLADWIN
MY COMMISSION EXPIRES May 10, 2012
ACTING IN THE COUNTY OF MIDLAND

NOTARIAL CERTIFICATE (INDIVIDUAL)

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

On this 15th day of August, 2007, personally appeared

Robert M. Campbell

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

Brenda Maida
Notary Public
BRENDA J. MAIDA
NOTARY PUBLIC, STATE OF MI
COUNTY OF GLADWIN
MY COMMISSION EXPIRES May 10, 2012
ACTING IN THE COUNTY OF MIDLAND

PATENT

REEL: 025804 FRAME: 0186

NOTARIAL CERTIFICATE (INDIVIDUAL)

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

On this 15 day of September, 2007, personally appeared
before me,

William J. Kruper, Jr.

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

Renee Allen
Notary Public

Renee Allen
NOTARY PUBLIC, MIDLAND COUNTY, MICHIGAN
MY COMMISSION EXPIRES: APRIL 24, 2013

NOTARIAL CERTIFICATE (INDIVIDUAL)

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

On this 3 day of July, 2007, personally appeared
before me,

David J. Schreck

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.



[Signature]
Notary Public

NOTARIAL CERTIFICATE (INDIVIDUAL)

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

On this 23rd day of July, 2007, personally appeared
before me,

Richard D. Varjian

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



Bonnie K. Kandt
Notary Public

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

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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: **July 3, 2007; July 23, 2007;**
August 8, 2007; August 14, 2007; August 15, 2007; September 15, 2007

From, the ASSIGNOR: **Bruce D. Hook, 107 Banyan Drive, Lake Jackson, Texas 77566, USA; John Briggs, 1715 Sylvan Lane, Midland, Michigan 48640, USA; Robert M. Campbell, 2801 Saint Marys Drive, Midland, Michigan 48640, USA; William J. Kruper, Jr., 230 Barden Road, Sanford, Michigan 48657, USA; David J. Schreck, 504 South Lakeshore Drive, Lake City, Minnesota 55041, USA; Richard D. Varjian, 710 Colorado Street Northwest, Hutchinson, Minnesota 55350, USA**

of the invention entitled:

A PROCESS FOR THE CONVERSION OF A CRUDE GLYCEROL, CRUDE MIXTURES OF NATURALLY DERIVED MULTICOMPONENT ALIPHATIC HYDROCARBONS OR ESTERS THEREOF TO A CHLOROHYDRIN

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 14 day of February, 2011

THE DOW CHEMICAL COMPANY

CORP.
SEAL

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 14 day of February, 2011, 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 authorization Policy of the said Corporation,

which I have seen, appointing the said individual **Attorney-in-fact** 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

(Cen)

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

PATENT