PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Elbert J. Campbell	06/11/2009
Dick A. Nagaki	07/02/2009
Hwaili Soo	06/16/2009
David A. Spears	06/11/2009

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:	12533753

CORRESPONDENCE DATA

Fax Number: (414)223-5000

Correspondence will be sent via US Mail when the fax attempt is unsuccessful.

Phone: 414-273-2100

Email: jpolmatier@whdlaw.com

Correspondent Name: Jere L. Polmatier

Address Line 1: WHYTE HIRSCHBOECK DUDEK S.C. Address Line 2: 555 East Wells Street, Suite 1900 Address Line 4: Milwaukee, WISCONSIN 53202

ATTORNEY DOCKET NUMBER:	66362-US-NP
NAME OF SUBMITTER:	Jere L. Polmatier

REEL: 023042 FRAME: 0884

PATENT

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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: TWO-STAGE, GAS PHASE PROCESS FOR THE MANUFACTURE OF ALKYLENE GLYCOL

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	
61/086,306	August 5, 2008	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. If you 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 number(s)) to inservine any corresponding equivalent application Number, Filing Date, and Filing Country

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to the above Irriving application of any country where that country's patent property must be identified and entered hereinabove for recorded of this Assignment. If 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 recorded 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.

> At: this

Subscribed and Declared by me/us:

this

Effective as of August 5, 2008	Effective as of August 5, 2008
Signature: 40 mill	Signature: Full Name: Dick A. Nagaki
Full Name: Elbert 1. Campbell ex	, =
Residence: 44786 William Daines 2806 Bermuda Banes A	3
Charleston, West Virginia 25214	Sun Prairie, WI 53590
Country: United States of America. Missouri City, TX	Country: United States of America
Citizenship: United States of America 77459	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:
his day of , 20	this day of , 20
Effective as of August 5, 2008	Effective as of August 5, 2008
lignature:	Signature:
full Name: Hwaili Soo	Full Name: David A. Spears
Residence: 116 East Ridge Road	Residence: 5601 Whitehall Street
Charleston, West Virginia 25314	Midland, Michigan 48642-3156
ountry: United States of America	Country: United States of America
Litizenship: United States of America	Citizenship: United States of America
O. Address: Same as residence	P.O. Address: Same as residence
imployed Ry: The Doy Chemical Company	Francoved By: The Dow Chemical Company
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Of Country: United States of America

() Additional names and signatures are attached.

Of Country: United States of America

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SEAL

	NOTARI	AL CER	TIFICATE (Ir	idividual)
UNITED STATES (STATE OF County/Parish of On this 1 day)) SS)	, 20�	}_, personally appeared before me
		Elbert	J. Campbell	
				o executed the foregoing document poses therein expressed.
SEAL DIANA JAC Notary PL STATE OF T My Commission Expires	KSON iblic EXAS March 10, 2013	F	Wiana	Jackon .
	NOTARI	AL CER	TIFICATE (In	dividual)
UNITED STATES O STATE OF County/Parish of	F AMERICA)) SS)		
On this day o	of		, 20	, personally appeared before me
known or identified to	me to be the in	Dick dividual de	A. Nagaki scribed in and wh	o executed the foregoing document poses therein expressed.
SEAL		.نكب:،		
	NOTARIA	AL CER	ΓΙΓΙCATE (In	dividual)
UNITED STATES OF STATE OF County/Parish of	F AMERICA)) SS)		
On this day o	f		, 20	, personally appeared before me
		Hw	aili Soo	
				o executed the foregoing document poses therein expressed.

Assignment 110 is in the 2003,350 impactor and has the same meaning in other languages with the same \$10 number and 803s.

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: TWO-STAGE, GAS PHASE PROCESS FOR THE MANUFACTURE OF ALKYLENE GLYCOL.

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 nomines(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 Assigner, and do hereby authorize Assigner or its designer to insert here the Priority Number, Filing Dete, and Filing Country

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The state of the s	August J. Zinia	
		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 Number. Filing Date, and Filing County

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to the above Priority application of any country where that country's patent property must be identified and entered hereinabove for recorded of this Assignment. Vwe 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

At:	AC Wadion, OI.
this day of 20	this Z day of July ,2009
Effective as of August 5, 2008	Effective as of August 5, 2008
Signature: Full Name: Elbert J. Campbell Residence: 1136 Wilkie Drive Charleston, West Virginia 25314 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	Signature: Full Name: Dick A. Nagaki Residence: 831 Abbington Ct. Sun Prairie, WI 53590 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:	I (At:
this day of , 20	this day of , 20 Effective as of August 5, 2008
Full Name: Hwaili Soo Residence: 116 East Ridge Road Charleston, West Virginia 25314 Country: United States of America Clizenship: United States of America C.O. Address: Same as residence Country: United States of America Country: United States of America Country: United States of America It country: United States of America In names and signatures are attached.	Signature: Full Name: David A. Spears Residence: 5601 Whitehall Street Midland, Michigan 48642-3156 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

() Addition

TNo Assignment 128 is in the BRILLER language and has the same meaning is other improgree with the same TIO number and PUDate.

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NOTARIAL CERTIFICATE (Individual)

	·
UNITED STATES OF AMERICA STATE OF County/Parish of	A)) SS)
On this day of	, 20, personally appeared before me, Elbert J. Campbell
known or identified to me to be the	Elbert J. Campbell individual described in and who executed the foregoing document se act and deed for uses and purposes therein expressed.
SEAL	
NOTAR	CIAL CERTIFICATE (Individual)
UNITED STATES OF AMERICA STATE OF County/Parish of Danc) SS) , 20 09 , personally appeared before me,
known or identified to me to be the i	Dick A. Nagaki individual described in and who executed the foregoing document e act and deed for uses and purposes therein expressed.
SEAL	Dallfare
NOTAR	IAL CERTIFICATE (Individual)
UNITED STATES OF AMERICA STATE OF County/Parish of)) SS)
On this day of	, 20, personally appeared before me,
known or identified to me to be the in	ndividual described in and who executed the foregoing document act and deed for uses and purposes therein expressed.
SEAL	

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INDIVIDUAL ASSIGNMENT AND INVENTOR'S DECLARATION

(with Priority Rights)

I/we verify 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: TWO-STAGE, GAS PHASE PROCESS FOR THE MANUFACTURE OF ALKYLENE GLYCOL

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 helow 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 amplityers. 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 Assignce, and do hereby authorize Assignce or its designee to insert here the Priority Number, Filing Date, and Filing Country

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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 Assigner in the prosecution of the application(s) and in any interference, conflict, apposition 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 identifical application as Assignee may request; and I/we do hereby authorize Assignce or its designee (or nominee(s)) to insert here any corresponding equivalent Application Number, Filing Date, and Filing County

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Application Number	Filing Date	Filing Country
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to the above Priority analisation of any country where that country's patent property must be identified and entered hereinabove for recorded 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 Pagent be issued to Assigner; and consent to the recordal of this Assignment, or a Notorial True Copy thereof, being under coverant not only that I've have full power to make the same, but also that such assigned rights are not encumbered by any grant, license, or other right heretofare given.

Subscribed and Declared by me/us:

A6	At:
this day of , 20	inis day or
Effective as of August 5, 2008	Effective as of August 5, 2008
Signature:	Signature:
Full Name: Elbert J. Campbell	Full Name: Dick A. Nagaki
Residence: 1136 Wilkie Drive	Residence: 831 Abbington Ct.
Charleston, West Virginia 25314	Sun Prairie, WI 53590
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
" DUTYN CHACLESPOND	At: this day of 2008
this 16th day of June , 200	this day of
Effective as of August 5/2008	Effective as of August 5, 2008
Signature <u>Lit</u>	Signature:
Full Name: Hwaili Soo	Full Name: David A. Spears
Residence: 116 East Ridge Road	Residence: 5601 Whitehall Street
Charleston, West Virginia 25314	Midland, Michigan 48642-3156
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
security of the section of the secti	Of Country: United States of America

() Addition

FORM 220

NOTARIAL CERTIFICATE (Individual)

UNITED STATES OF AMERICA)	SS			
STATE OF County/Parish of)	<i>აა</i>			
On this day of			, 20)	, personally appeared before me,
Con this day or		Elbert	J. Campbell		•
known or identified to me to be the in and acknowledged the same as a free	ndiv act	ridual de and dee	scribed in and d for uses and	d who d purpo	executed the foregoing document oses therein expressed.
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NOTAR	[AI	L CER	TIFICATE	E (Ind	lividual)
UNITED STATES OF AMERICA STATE OF County/Parish of)	SS			
On this day of			A. Nagaki	0	_, personally appeared before me,
known or identified to me to be the in and acknowledged the same as a free SEAL	act	and dee	ed for uses an	d purp	oses therein expressed.
NOTAR	[A]	CER	TIFICATE	E (Inc	lividual)
UNITED STATES OF AMERICA STATE OF WEST WOODS County/Parish of Karawa		SS	, 2 waili Soo	09	, personally appeared before me,
known or identified to me to be the in	ndi	zidual de	escribed in ar	nd who	executed the foregoing document
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Saint Albans, WV 2517 My Commission Expires August	7 [1,30	18			PATENT
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FORM 110 (R. 5/97)

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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

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Application Number	riling Hate	ring County
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to the above Priority application of any country where that country's patent properly 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:

Ass	Ac
this day of , 20	this day of ,20 Effective as of August 5, 2008
Effective as of August 5, 2008	Effective as of August 5, 2008
Signature:	Signature:
Full Name: Elbert J. Campbell	Full Name: Dick A. Nagaki
Residence: 1136 Wilkie Drive	Residence: 831 Abbington Ct.
Charleston, West Virginia 25314	Sun Prairie, WI 53590
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 Cuantry: United States of America
Ac.	At Maland MI
this day of , 20	this (day of Tune, 20 09
Effective as of August 5, 2008	Effective as of August 5, 2008
	11 () () () () () ()
Signature:	Signature: 1000 H Allau
Full Name: Hwaili Soo	Full Name: David A. Spears
Residence: 116 East Ridge Road	Residence: 5601 Whitehall Street
Charleston, West Virginia 25314	Midland, Michigan 48642-3156
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
nal names and signatures are attached	

() Additio

REEL: 023042 FRAME: 0892

NOTARIAL CERTIFICATE (Individual)

County/Parish of)	SS
On this 11 day of June	, 20 9, personally appeared before me, David A. Spears
	idual described in and who executed the foregoing document and deed for uses and purposes therein expressed.
SEAL	Luca D KJ

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

This Assignee Acceptance 660 is in the HNGLISH 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 11, 2009, June 16, 2009 and July 2, 2009

From, the ASSIGNOR: Elbert J. Campbell, 1136 Wilkie Drive, Charleston, West Virginia 25314, United States of America, Citizen of United States of America; Dick A. Nagaki, 5906 Woodview Pass, Midland, Michigan 48642, United States of America, Citizen of United States of America; Hwaili Soo, 116 East Ridge Road, Charleston, West Virginia 25314, United States of America, Citizen of United States of America; and David A. Spears, 5601 Whitehall Street, Midland, Michigan 48642-3156, United States of America, Citizen of United States of America

of the invention entitled:

RECORDED: 07/31/2009

TWO-STAGE, GAS PHASE PROCESS FOR THE MANUFACTURE OF ALKYLENE GLYCOL

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 17th day of July, 2009
THE DOW CHEMICAL COMPANY
SEAL By: Waltel & Hein
MICHAEL L. GLENN Authorized Representative
NOTARIAL CERTIFICATE (Corporation)
UNITED STATES OF AMERICA) STATE OF MICHIGAN) SS County/Parish of Midland)
On this \\ \text{The day of } \text{July }, 200\text{G}, 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.

Rebecca Sue Hollingshead PATENT
NOTARY PUBLIC HELD REEL M023042 FRAME: 0894

eleca Sue Hollinghaad