### 501779329 01/09/2012

#### PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name		Execution Date
Union Carbide Chemicals & Plastics Technology LLC	01	1/19/2010

### **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

Property Type	Number
Application Number:	12846984

#### **CORRESPONDENCE DATA**

 Fax Number:
 (989)636-3237

 Phone:
 989-636-0960

 Email:
 plkipfmiller@dow.com

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent

via US Mail.

Correspondent Name: Pattie Kipfmiller

Address Line 1: The Dow Chemical Company

Address Line 2: 2040 Dow Center

Address Line 4: Midland, MICHIGAN 48674

ATTORNEY DOCKET NUMBER:	62397A US CNT[3]
NAME OF SUBMITTER:	Pattie Kipfmiller

### Total Attachments: 3

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REEL: 027498 FRAME: 0928

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This Assignment 440 is in the ENGLISH language and has the same meaning in other languages with the same 440 number.

#440 # 440

This Assignment 440 is in the ENGLISH language and has the same meaning in other languages with the same 440 number. **FORM 440** 

# ASSIGNMENT

(with Priority Rights)

# INVENTORSHIP DECLARATION

We, ASSIGNOR, of:

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, United States of

America do hereby claim and declare that we hold the invention and all patent and other rights and powers obtainable or exercisable in respect thereof from the sole, true and first inventor(s):

Juliana G. Serafin, 1534 Quarrier Street, Charleston, West Virginia 25311, United States of America, Citizen of United States of America; Albert C. Liu, 1534 Quarrier Street, Charleston, West Virginia 25311, United States of America, Citizen of United States of America; Seyed R. Seyedmonir, 111 Woodbridge Drive, Charleston, West Virginia 25311, 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 Thomas Szymanski, 2705 Blue Heron Drive, Hudson, Ohio 44236, United States of America, Citizen of United States of America

by an Assignments dated: October 12, 2004 and November 24,2004 and of an invention relating to and entitled:

## CATALYSTS HAVING ENHANCED STABILITY, EFFICIENCY AND/OR ACTIVITY FOR ALKYLENE OXIDE PRODUCTION

We do hereby declare, for good and valuable consideration, received, sell, assign, and transfer unto:

WE, the ASSIGNEE:

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, United States of America our entire right, title and interest throughout the world, in and to the invention and all rights and powers to make application for Letters Patent in its own name, or in the name of its nominee; and all rights and powers to file any reissue, divisional, continuing or substitute application and any corresponding applications in any and all countries, including all rights to claim priority under all International Conventions and Treaties in the name of said Assignee, and do hereby authorize said Assignee to insert here the Priority Number, Filing Date, and Filing Country

Priority Number	Filing Date	Filing Country	l
60/511,975	October 16, 2003	United States of America	

of the application on which the priority will be based; and in and to any Letters Patent that may be issued for said invention in any and all countries; and we do hereby agree to assist said Assignee in the prosecution of the said applications and in any interference, conflict, opposition or litigation which may arise involving said invention or the patent or patents thereon, and to execute any reissue, divisional, continuing or substitute application and assent to their making any applications in other countries corresponding to the above and below specifically identified application, as may be requested by said Assignee; and we do hereby authorize said Assignee to insert here the corresponding Application Number, Filing Date, and Filing Country

Application Number	Filing Date	Filing Country
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of the corresponding application in any country where that patent property must be entered for recordal of this Assignment; and we do hereby authorize and request that any such Letters Patent be issued to said Assignee in accordance herewith, and consent to the recordal of this Assignment being under covenant, not only that 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 Sworn by us at Midland, Michigan 48674, USA HI day of January

> UNION CARBIDE CHEMICALS & PLASTICS TECHNOLOGY LLC

CORP.

SEAL

CHARLES J. MAURER III

Attach Notarial Certificate (Corporation)

**PATENT** REEL: 027498 FRAME: 0929 This Notarial Certificate 550 is in the ENGLISH language and has the same meaning in other languages with the same 550 raumber.

This Notarial Certificate 550 is in the ENGLISH language and has the same meaning in other languages with the same 550 monther. FORM 550

# NOTARIAL CERTIFICATE (Corporation)

UNITED STATES OF AMERICA STATE OF MICHIGAN County/Parish of Midland	) ) SS )		
On this 10th day of Jonua before me, CHARLES J. MAURER III,	Secretary.	20 <u>  U</u> ,	personally appeared
known or identified to me to be the individua and acknowledged the same as a free act and authority of the said Corporation incorporate	al described in deed for uses	and purposes the	rein expressed by
States of America.			

I further certify that said authority, dated December 31, 2007, is based on

Authorization Policy of said Limited Liability Company

which I have seen, appointing the said individual 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 NOTARY PUBLIC, VICENCE COUNTY, MICHIGAN MY COMMISSION EMERGES ACVENSER 25, 2012

ecca See Hollingthias

PATENT REEL: 027498 FRAME: 0930 This Assigner 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: January 19, 2010

From, the ASSIGNOR:

UNION CARBIDE CHEMICALS & PLASTICS

TECHNOLOGY LLC 2020 Dow Center Midland, Michigan 48674 United States of America

of the invention entitled:

CATALYSTS HAVING ENHANCED STABILITY, EFFICIENCY AND/OR ACTIVITY FOR ALKYLENE OXIDE PRODUCTION

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	day of January, 20 10
CORP SEAL	By: Walton Jenn  By: MICHAEL L. GLENN  Authorized Representative

# NOTARIAL CERTIFICATE (Corporation)

UNITED STATES OF AMERICA	)
STATE OF MICHIGAN	) SS
County/Parish of Midland	)
On this 20 day of Janua	and, 20 10 personally appeared
before me, MICHAEL L. GLENN, Auth	

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 NOTARY PUBLIC, MIDLAND COUNTY, MICHIGAN MY COMMISSION EXPIRES APRIL 07\_2012\_

> > REEL: 027498 FRAME: 0931

**RECORDED: 01/09/2012**