

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
Stylesheet Version v1.2

EPAS ID: PAT4222936

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>SEQUENCE:</b>	2
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
UNION CARBIDE CHEMICALS & PLASTICS TEHCNOLOGY LLC	04/09/2013
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	THE DOW CHEMICAL COMPANY
<b>Street Address:</b>	2030 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>
<b>Application Number:</b>	14648468
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(989)636-3237
<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>	989-636-8537
<b>Email:</b>	FGLMFRR@DOW.COM
<b>Correspondent Name:</b>	KRISTIE ELLISON
<b>Address Line 1:</b>	2040 DOW CENTER
<b>Address Line 4:</b>	MIDLAND, MICHIGAN 48674
<b>ATTORNEY DOCKET NUMBER:</b>	74173-US-PCT
<b>NAME OF SUBMITTER:</b>	KRISTIE ELLISON
<b>SIGNATURE:</b>	/Kristie Ellison/
<b>DATE SIGNED:</b>	01/12/2017
<b>Total Attachments: 3</b>	
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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.



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FORM 440

# ASSIGNMENT

(with Priority Rights)  
and  
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):

Thomas C. Eisenschmid, 5407 Tiffany Drive, Cross Lanes, West Virginia 25313, United States of America, Citizen of United States of America and Michael C. Becker, 3006 Amber Sky Lane, Dickinson, Texas 77539, United States of America, Citizen of United States of America

by an Assignment dated: March 8, 2013 and March 13, 2013

of an invention relating to and entitled:

**HYDROFORMYLATION PROCESS**

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
61/734,089	December 6, 2012	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

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  
 this 9 day of April, 2013

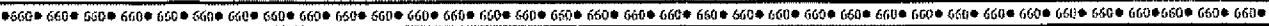
UNION CARBIDE CHEMICALS & PLASTICS TECHNOLOGY LLC

CORP.  
SEAL

By:   
**CHARLES J. MAURER III**  
 Secretary

Attach Notarial Certificate (Corporation)

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: April 9, 2013

From, the ASSIGNOR:  
UNION CARBIDE CHEMICALS & PLASTICS TECHNOLOGY LLC  
2020 Dow Center  
Midland, Michigan 48674  
United States of America

of the invention entitled:  
**HYDROFORMYLATION PROCESS**

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 9 day of April, 20 13

CORP.  
SEAL

THE DOW CHEMICAL COMPANY

By: [Signature]  
DARRYL P. FRICKEY  
Assistant General Counsel - IP Law

### NOTARIAL CERTIFICATE (Corporation)

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

On this 9 day of April, 2013, personally appeared before me, DARRYL P. FRICKEY, Assistant General Counsel - IP Law, 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 April 6, 2011, is based on

a Certified Resolution

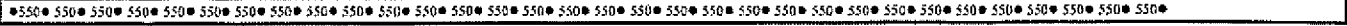
which I have seen, appointing the said individual Assistant General Counsel - IP Law with full power to sign the foregoing document on behalf of the said corporation and that the purposes for which said document is granted are within the scope of the objects or activities of said corporation.

SEAL

[Handwritten mark]

[Signature]  
Kathy Sue Wertz  
NOTARY PUBLIC, MIDLAND COUNTY, MICHIGAN  
MY COMMISSION EXPIRES APRIL 07, 2018

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



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FORM 550

### NOTARIAL CERTIFICATE (Corporation)

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

On this 9 day of April, 2013, personally appeared before me, CHARLES J. MAURER III, Secretary, 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 limited liability company incorporated under the laws of the State of Delaware, United 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 Secretary with full power to sign the foregoing document on behalf of the said limited liability company and that the purposes for which said document is granted are within the scope of the objects or activities of said limited liability company.

SEAL

Kathy Sue Wertz  
NOTARY PUBLIC, MIDLAND COUNTY, MICHIGAN  
MY COMMISSION EXPIRES APRIL 07, 2018