

## PATENT ASSIGNMENT

Electronic Version v1.1  
 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
The Dow Chemical Company	01/20/2010
RECEIVING PARTY DATA	
Name:	Dow Technology Investments LLC
Street Address:	2020 Dow Center
City:	Midland
State/Country:	MICHIGAN
Postal Code:	48674
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	13260572
CORRESPONDENCE DATA	
Fax Number:	9896363237
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>	
Phone:	9896360618
Email:	roedel@dow.com
Correspondent Name:	Matthew Roedel
Address Line 1:	2040 Dow Center
Address Line 4:	Midland, MICHIGAN 48674
ATTORNEY DOCKET NUMBER:	68179-US-PCT
NAME OF SUBMITTER:	Matthew Roedel
Signature:	/Matthew Roedel/
Date:	07/17/2013
Total Attachments: 3 source=68179-US-PCT 20130717 PDH Dow Chemical to DTIL#page1.tif source=68179-US-PCT 20130717 PDH Dow Chemical to DTIL#page2.tif source=68179-US-PCT 20130717 PDH Dow Chemical to DTIL#page3.tif	

CH \$40.00 13260572

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: **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** 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):  
**Michael A. Brammer, 54 Wingfoot Drive, Hurricane, West Virginia 25526, United States of America**  
 by an Assignment dated: **January 4, 2010** of an invention relating to and entitled:  
**HYDROFORMYLATION PROCESS WITH A DOUBLY OPEN-ENDED BISPHTHOSPHITE LIGAND**

We do hereby declare, for good and valuable consideration, effective December 10, 2009, received, sell, assign, and transfer unto:

WE, the ASSIGNEE: **DOW TECHNOLOGY INVESTMENTS 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** 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
61/165,039	March 31, 2009	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 20 day of January, 20 10

CORP.  
SEAL

**THE DOW CHEMICAL COMPANY**

By:

*Michael L. Glenn*

**MICHAEL L. GLENN**

**Authorized Representative**

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.

**PATENT**  
**REEL: 030813 FRAME: 0822**

[illegible]

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