502422217 07/17/2013

PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Michael A. Brammer	01/04/2010

RECEIVING PARTY DATA

Name:	Union Carbide Chemicals & Plastics Technology 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

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

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 Inventors to Union Carbide#page1.tif source=68179-US-PCT 20130717 PDH Inventors to Union Carbide#page2.tif source=68179-US-PCT 20130717 PDH Inventors to Union Carbide#page3.tif

PATENT REEL: 030813 FRAME: 0742 **\$40.00** 1326057

This Assignment 110 is in the ENGLISH language and has the same meaning in other languages with the same 110 number and R/Dat

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: HYDROFORMYLATION PROCESS WITH A DOUBLY OPEN-ENDED BISPHOSPHITE LIGAND

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:

Union Carbide Chemicals & Plastics Technology LLC 2020 Dow Center Midland, Michigan 48674 United States of America

a limited liability company 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
61/165,039	March 31, 2009	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 Country

Application Number	Filing Date	Filing Country

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. 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 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	At:
this Att day of JANUARY .20	this day of , 20
Effective as of March 31, 2009	
h1 = 11 1	
Signature: Mulul A. Brann	Signature:
Full Name: Michael A. Brammer	Full Name:
Residence: 53 Southernwood Court	Residence:
Lake Jackson, Texas 77566	
Country: United States of America	Country:
Citizenship: United States of America	Citizenship:
P.O. Address: Same as residence	P.O. Address:
Employed By: Union Carbide Corporation	Employed By:
Of Country: United States of America	Of Country:
At:	At:
this day of , 20	this day of , 20
day 01 20	day of, 20
Signature:	Signature:
Full Name:	Full Name:
Residence:	Residence:
Country:	Country:
Citizenship:	Citizenship:
P.O. Address:	P.O. Address:
Employed By:	Employed By:
Of Country:	Of Country:

() Additional names and signatures are attached.

This Assignee 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:

UNION CARBIDE CHEMICALS & PLASTICS TECHNOLOGY LLC

2020 Dow Center

Midland, Michigan 48674 United States of America

hereby accept the ASSIGNMENT attached hereto which is dated: January 4, 2010

From, the ASSIGNOR:

Michael A. Brammer, 54 Wingfoot Drive, Hurricane, West Virginia 25526,

United States of America

of the invention entitled:

HYDROFORMYLATION PROCESS WITH A DOUBLY OPEN-ENDED BISPHOSPHITE LIGAND

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 Midlar	nd, Michigan 48674, U.S.A.
this/4 day of _	January, 20/0
	UNION CARBIDE CHEMICALS & PLASTICS
	TECHNOLOGY LLC
CORP.	
SEAL	
	By: holes Marento
	CHARLES J. MAUKER III
	Secretary (

NOTARIAL CERTIFICATE (Corporation)

	,	
STATE OF MICHIGAN) SS	
County/Parish of Midland		
On this day of	January,	20 /0 , personally appeared
before me, CHARLES J. MA	VRER 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 **Delaware**.

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

Authorization Policy of said Limited Liability Company

UNITED STATES OF AMERICA)

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

Notary Public

Jane M. Neitzel NOTARY PUBLIC BAY COUNTY, MICHIGAN ACTING NOW DUAND COUNTY MICHIGAN MY COUNTS FROM EXPIRES SEPTEMBER 26, 2013 This Assignment 220 is in the ENGLISH language and has the same meaning in other languages with the same 220 number and R/Date.

This Assignment 220 is in the ENGLISH language and has the same meaning in other languages with the same 220 number and R/D

FORM 220

NOTARIAL CERTIFICATE (Individual)

UNITED STATES OF AMI	ERICA)	
STATE OF TEXAS) SS	
County/Parish of Brazoria)	
On this 4 day of	January	, 20 <u>/0</u> , personally appeared before me
	Michael A	A Ruamman

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.



Tanny Jupps

PATENT REEL: 030813 FRAME: 0745