PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4909368

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
ROBERT J. JORGENSEN	09/27/2013
STEPHANIE M. WHITED	09/03/2013

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:	14902128

CORRESPONDENCE DATA

Fax Number: (989)636-3237

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.

Phone: 989-636-2884

Email: FGLMFRR@dow.com

Correspondent Name: DANNY CHILDS
Address Line 1: 2040 DOW CENTER

Address Line 4: MIDLAND, MICHIGAN 48674

ATTORNEY DOCKET NUMBER:	74645-US-PCT
NAME OF SUBMITTER:	DANNY CHILDS
SIGNATURE:	/Danny Childs/
DATE SIGNED:	04/11/2018

Total Attachments: 3

source=74645-US-PCT Assignment Inventors to UCC#page1.tif source=74645-US-PCT Assignment Inventors to UCC#page2.tif source=74645-US-PCT Assignment Inventors to UCC#page3.tif

PATENT 504862628 REEL: 045502 FRAME: 0402

Thus Assignment 110 is in the ENGLESH language and has the same meaning in other languages with the same 110 number and R/Dale

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: A METHOD FOR PRODUCING ONE OR MORE ETHYLENE-BASED POLYMERS

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

a limited liability company organized and existing under the laws 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
61/867.323	August 19, 2013	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.

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:

At: FORTBRAGGICH	At: South Charleston, WV 25303, USA
this 27 + Iday of SOTEMARN 20 13	this, 20
Effective as of August 19, 2013	Effective as of August 19, 2013
Signature: // Signature:	Signature:
Full Name: Robert J. Jorgensen /	Full Name: Stephanie M. Whited
Residence: 234 Beechwood Estates	Residence: 1934 Parkwood Road
Scott Depot, West Virginia 25560	Charleston, West Virginia 25314
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: Union Carbide Chemicals & Plastics	Employed By: Union Carbide Chemicals & Plastics
Technology LLC	Technology LLC
Of Country: United States of America	Of Country: United States of America
At:	At:
this day of , 20	this day of , 20
tins, 20,	day of, 20,
Signature:	Signature:
Fuil Name:	Full Name:
Residence:	Residence:
Country:	Country:
	1. POWER AND THE PARTY OF THE P
Citizenship:	Citizenship:
Citizenship: P.O. Address:	P.O. Address:
	1) •

() Additional names and signatures are attached.

PATENT REEL: 045502 FRAME: 0403 This Assessment 110 is in the ENGLISH (aucuroe and has the same meaning in odier languages with the same 110 number and R/Date

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: A METHOD FOR PRODUCING ONE OR MORE ETHYLENE-BASED POLYMERS

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

a limited liability company organized and existing under the laws 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
ĺ	61/867,323	August 19, 2013	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.

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:

At:	At: South Charleston, WV 25303, USA
this day of , 20	this 3rd day of September, 20 13
Effective as of August 19, 2013	Effective as of August 19, 2013
Signature:	Signature: Stephonie M. White
Full Name: Robert J. Jorgensen	Full Name: Stephanie M. Whited
Residence: 234 Beechwood Estates	Residence: 1934 Parkwood Road
Scott Depot, West Virginia 25560	Charleston, West Virginia 25314
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: Union Carbide Chemicals & Plastics	Employed By: Union Carbide Chemicals & Plastics
Technology LLC	Technology LLC
Of Country: United States of America	Of Country: United States of America
At:	At:
this, 20	this, 20,
Signature:	Signature:
Full Name:	Full Name:
Residence:	Residence:
residence.	residence.
Country:	Country:
Citizenship:	Citizenship:
P.O. Address:	P.O. Address:
Employed By:	Employed By:
Of Country:	Of Country:
onal names and signatures are attached.	

() Additional names and signatures are attached.

This Assigned 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: September 27, 2013 and September 3, 2013; effective as of August 19, 2013

From, the ASSIGNOR: Robert J. Jorgensen, 234 Beechwood Estates, Scott Depot, West Virginia 25560, United States of America, Citizen of United States of America and Stephanie M. Whited, 1934 Parkwood Road, Charleston, West Virginia 25314, United States of America, Citizen of United States of America

of the invention entitled:

A METHOD FOR PRODUCING ONE OR MORE ETHYLENE-BASED POLYMERS

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 Midiand, Wichigan 40074, USA
this 14 day of October, 20 13
UNION CARBIDE CHEMICALS & PLASTICS TECHNOLOGY LLC CORP. SEAL By: Log Maurette CHARLES J. MAURER III Secretary
NOTARIAL CERTIFICATE
UNITED STATES OF AMERICA) STATE OF MICHIGAN) SS County/Parish of Midland)
On this
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 entity and that the purposes for which said document is granted are

within the scope of the objects or activities of said entity.

SEAL

Kathy Sue Wertz

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

PATENT REEL: 045502 FRAME: 0405

RECORDED: 04/11/2018