

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT3369688

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
MICHAEL C. BECKER	06/08/2012
JAMES D. DUSTON	07/06/2012
STEVEN H. FISHER	07/09/2012
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:	14366033
CORRESPONDENCE DATA	
Fax Number:	(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>	
Phone:	9896331963
Email:	fglmfrr@dow.com
Correspondent Name:	BARB STIEVE
Address Line 1:	2040 DOW CENTER
Address Line 4:	MIDLAND, MICHIGAN 48674
ATTORNEY DOCKET NUMBER:	71920-US-PCT
NAME OF SUBMITTER:	BARB STIEVE
SIGNATURE:	/Barb Stieve/
DATE SIGNED:	05/27/2015
Total Attachments: 4	
source=71920-US-PCT 20150527 PDH Inventors to Union Carbide#page1.tif	
source=71920-US-PCT 20150527 PDH Inventors to Union Carbide#page2.tif	
source=71920-US-PCT 20150527 PDH Inventors to Union Carbide#page3.tif	
source=71920-US-PCT 20150527 PDH Inventors to Union Carbide#page4.tif	

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

This Assignment 110 is in the ENGLISH language and has the same meaning in other 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: AN IMPROVED HYDROFORMYLATION PROCESS

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
61/577,708	December 20, 2011	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: TEXAS CITY, TX
this 9th day of JUNE, 20 12
Effective as of December 20, 2011
Signature: Michael C Becker
Full Name: Michael C. Becker
Residence: 3006 Amber Sky Lane
Dickinson, Texas 77539
Country: United States of America
Citizenship: United States of America
P.O. Address: Same as Residence
Employed By: Union Carbide Corporation
Of Country: United States of America

At: _____
this _____ day of _____, 20 ____
Effective as of December 20, 2011
Signature: _____
Full Name: James D. Duston
Residence: 2625 Hicklin Street
Alvin, Texas 77511
Country: United States of America
Citizenship: United States of America
P.O. Address: Same as residence
Employed By: Union Carbide Corporation
Of Country: United States of America

At: _____
this _____ day of _____, 20 ____
Effective as of December 20, 2011
Signature: _____
Full Name: Steven H. Fisher
Residence: 1027 Valley Acres Road
Houston, Texas 77062
Country: United States of America
Citizenship: United States of America
P.O. Address: Same as residence
Employed By: Union Carbide Corporation
Of Country: United States of America

At: _____
this _____ day of _____, 20 ____
Signature: _____
Full Name: _____
Residence: _____
Country: _____
Citizenship: _____
P.O. Address: _____
Employed By: _____
Of Country: _____

() Additional names and signatures are attached.

This Assignment (110) is in the English language and has the same meaning in other languages with the same 110 number and R/F line.

This Assignment (110) is in the English language and has the same meaning in other languages with the same 110 number and R/F line.

This Assignment (110) is in the English language and has the same meaning in other languages with the same 110 number and R/F line.

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: **AN IMPROVED HYDROFORMYLATION PROCESS**

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
61/577,708	December 20, 2011	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.

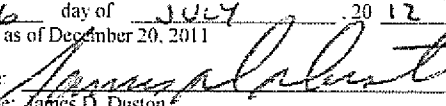
I/we authorize Assignee or its designee to translate this Assignment into all languages necessary; and we request that any such Letters Patent be issued to Assignee; and consent to the recordal of this Assignment, or a Notarial True Copy thereof, being under covenant not only that I/we have full power 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: _____
this _____ day of _____, 20____
Effective as of December 20, 2011

Signature: _____
Full Name: Michael C. Becker
Residence: 3006 Amber Sky Lane
Dickinson, Texas 77539
Country: United States of America
Citizenship: United States of America
P.O. Address: Same as Residence
Employed By: Union Carbide Corporation
Of Country: United States of America

At: Texas
this 6 day of July, 2012
Effective as of December 20, 2011

Signature: 
Full Name: James D. Duston
Residence: 2625 Hicklin Street
Alvin, Texas 77511
Country: United States of America
Citizenship: United States of America
P.O. Address: Same as residence
Employed By: Union Carbide Corporation
Of Country: United States of America

At: _____
this _____ day of _____, 20____
Effective as of December 20, 2011

Signature: _____
Full Name: Steven H. Fisher
Residence: 1027 Valley Acres Road
Houston, Texas 77062
Country: United States of America
Citizenship: United States of America
P.O. Address: Same as residence
Employed By: Union Carbide Corporation
Of Country: United States of America

At: _____
this _____ day of _____, 20____
Effective as of December 20, 2011

Signature: _____
Full Name: _____
Residence: _____
Country: _____
Citizenship: _____
P.O. Address: _____
Employed By: _____
Of Country: _____

() Additional names and signatures are attached

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: AN IMPROVED HYDROFORMYLATION PROCESS

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
61/577,708	December 20, 2011	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 recording 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: _____
this _____ day of _____, 20____
Effective as of December 20, 2011

Signature: _____
Full Name: Michael C. Becker
Residence: 3006 Amber Sky Lane
Dickinson, Texas 77539
Country: United States of America
Citizenship: United States of America
P.O. Address: Same as Residence
Employed By: Union Carbide Corporation
Of Country: United States of America

At _____
this _____ day of _____, 20____
Effective as of December 20, 2011

Signature: _____
Full Name: James D. Duston
Residence: 2625 Hicklin Street
Alvin, Texas 77511
Country: United States of America
Citizenship: United States of America
P O. Address: Same as residence
Employed By: Union Carbide Corporation
Of Country: United States of America

At: Texas
 this 9 day of July, 20 12
 Effective as of December 20, 2011
 Signature: Steven H. Fisher
 Full Name: Steven H. Fisher
 Residence: 1027 Valley Acres Road
 Houston, Texas 77062
 Country: United States of America
 Citizenship: United States of America
 P O. Address: Same as residence
 Employed By: Union Carbide Corporation
 Of Country: United States of America

At: _____
this _____ day of _____, 20 _____
Signature: _____
Full Name: _____
Residence: _____
Country: _____
Citizenship: _____
P.O. Address: _____
Employed By: _____
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.

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: June 8, 2012, July 6, 2012, and July 9, 2012

From, the ASSIGNOR: Michael C. Becker, 3006 Amber Sky Lane, Dickinson, Texas 77539, United States of America, Citizen of United States of America; James D. Duston, 2625 Hicklin Street, Alvin, Texas 77511, United States of America, Citizen of United States of America; and Steven H. Fisher, 1027 Valley Acres Road, Houston, Texas 77062, United States of America, Citizen of United States of America

of the invention entitled:

AN IMPROVED 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 30 day of July, 20 12

**UNION CARBIDE CHEMICALS & PLASTICS
TECHNOLOGY LLC**

CORP.
SEAL

By: Charles J. Maurer III
CHARLES J. MAURER III
 Secretary

NOTARIAL CERTIFICATE (Corporation)

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

On this 30 day of July, 20 12, 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 Weritz
 Kathy Sue Weritz
 NOTARY PUBLIC, MIDLAND COUNTY, MICHIGAN
 MY COMMISSION EXPIRES APRIL 07, 2018