PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

EPAS ID: PAT3903340

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
DAVID G. BARTON	10/18/2010
MARK H. MCADON	08/18/2010
ROBERT J. GULOTTY JR.	08/19/2010
DEAN M. MILLAR	08/23/2010

RECEIVING PARTY DATA

Name:	DOW GLOBAL TECHNOLOGIES INC.	
Street Address:	2040 DOW CENTER	
City:	MIDLAND	
State/Country:	MICHIGAN	
Postal Code:	48674	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	13639105

CORRESPONDENCE DATA

Fax Number: (612)659-9344

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: 6126599340

Email: Dow.Docketing@bipl.net

Correspondent Name: BROOKS, CAMERON & HUEBSCH, PLLC 1201 MARQUETTE AVENUE SOUTH Address Line 1:

Address Line 2: SUITE 400

Address Line 4: MINNEAPOLIS, MINNESOTA 55403

ATTORNEY DOCKET NUMBER:	68680-US-PCT
NAME OF SUBMITTER:	ALEXANDER MARQUARDT
SIGNATURE:	/Alexander Marquardt/
DATE SIGNED:	06/06/2016

Total Attachments: 4

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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: CATALYST COMPOSITIONS FOR PRODUCING MIXED ALCOHOLS

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:

Dow Global Technologies Inc.

2040 Dow Center

Midland, Michigan 48674

United States of America

a corporation 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
61/322,650	April 9, 2010	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:

Ar: Midland, Michigan 48674, USA	At: Midiand, Michigan 48674, USA
this 18 day of October, 20 10	this 18 day of 18 August, 20 10
Effective as of April 9, 2010	Effective as of April 9, 2010
Signature:	Signature: SmMD Inhou
Full Name: David G. Barton	Full Name: Mark H. McAdon
Residence: 2908 Mount Vernon Drive	Residence: 705 Stillmeadow Ln
Midland, Michigan 48642	Midland, Michigan 48642-3389
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: The Dow Chemical Company	Employed By: The Dow Chemical Company
Of Country: United States of America	Of Country: United States of America
At: Midland, Michigan 48674, USA	At: Midland, Michigan 48674, USA

At: Midland, Michigan 48674, USA
this 19th day of Avenue, 20 10

Signature: Full Name: Robert J. Gulotty Jr.
Residence: 4212 Bluebird Drive
Midland, Michigan 48640

Country: United States of America
Citizenship: United States of America
P.O. Address: Same as Residence
Employed By: The Dow Chemical Company
Of Country: United States of America

this 23 day of
Effective as of April 9, 2010

Signature:
Full Name: Deah M. Millar
Residence: 2220 Eastman Avenue
Midland, Michigan 48640

Country: United States of America
Citizenship: United States of America
P.O. Address: Same as Residence
Employed By: The Dow Chemical Company
Of Country: United States of America

() Additional names and signatures are attached.

This Assignment 220 is in the ENGLISH language and has the same meaning in other languages with the same 220 number and IVDate FORM 220

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NOTARIAL CERTIFICATE (Individual)

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UNITED STATES OF AMERICA)					
STATE OF MICHIGAN) SS	ч				
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County/Parish of Midland)					
18 , a m 4-ha	, 20 10, personally appeared before me,				
On this	ℓ , 20 ℓ , personally appeared before me,				
]	David G. Barton				
known or identified to me to be the individu	al described in and who executed the foregoing document				
and acknowledged the same as a free act an	and acknowledged the same as a free act and deed for uses and purposes therein expressed.				
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Ker	Kathy Sue Wertz				
	MOTARY PUBLIC, MIDLAND COUNTY, MICHIGAN				
	MY COMMISSION EXPIRES APRIL 07, 2012				
NOTARIAL (CERTIFICATE (Individual)				
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UNITED STATES OF AMERICA)					
STATE OF MICHIGAN) SS					
County/Parish of Midland)	,				
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On this 18 day of August	20.1/)				
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<i>()</i> N	Aark H. McAdon				
known or identified to me to be the individu	al described in and who executed the foregoing document				
and acknowledged the same as a free act and	d deed for uses and purposes therein expressed.				
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fer	Kathy Sue Wertz				
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UNITED STATES OF AMERICA)					
STATE OF MICHIGAN) SS					
County/Parish of Midland)					
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On this 19 day of August	, 20 <u>//</u> , personally appeared before me, bert J. Gulotty, Jr.				
On this 11 day of 7/kgasi	, 20_/c, personany appeared before me,				
√ Ro	bert J. Gulotty, Jr.				
known or identified to me to be the individu	al described in and who executed the foregoing document				
and acknowledged the same as a free act and	d deed for uses and purposes therein expressed.				
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	Kathy Sue Wertz				

PATENT REEL: 038813 FRAME: 0904

NOTARY PUBLIC, MIDLAND COUNTY, MICHIGAN MY COMMISSION EXPIRES APRIL 07, 2012

NOTARIAL CERTIFICATE (Individual)

UNITED STATES OF AMERICA) STATE OF MICHIGAN) SS County/Parish of Midland)	
On this 23 day of August	, 20 10, personally appeared before me,
() De	ean M. Millar
known or identified to me to be the individual and acknowledged the same as a free act and or	described in and who executed the foregoing document leed for uses and purposes therein expressed
and acting wide god the state as a free det and t	acod for daes and purposes increm expressed,
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ee -	Kathy Sue Wertz
	NOTARY PUBLIC, MIDLAND COUNTY, MICHIGAN
	MY COMMISSION EXPIRES APRIL 07, 2012

PATENT REEL: 038813 FRAME: 0905 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:

DOW GLOBAL TECHNOLOGIES INC.

2040 Dow Center

Midland, Michigan 48674 United States of America

hereby accept the ASSIGNMENT attached hereto which is dated: August 18, 2010; August 19, 2010; August 23, 2010; October 18, 2010; with an effective date as of April 9, 2010

From, the ASSIGNOR: David G. Barton, 2908 Mount Vernon Drive, Midland, Michigan 48642, United States of America, Citizen of United States of America; Mark H. McAdon, 705 Stillmeadow Ln, Midland, Michigan 48642-3389, United States of America, Citizen of United States of America; Robert J. Gulotty, Jr., 4212 Bluebird Drive, Midland, Michigan 48640, United States of America, Citizen of United States of America; and Dean M. Millar, 2220 Eastman Avenue, Midland, Michigan 48640, United States of America, Citizen of United States of America

of the invention entitled:

CATALYST COMPOSITIONS FOR PRODUCING MIXED ALCOHOLS

Signed at Midland, Michigan 48674, USA

UNITED STATES OF AMERICA)

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.

this 22nd day of _(October, 20 10	
CORP. SEAL	DOW GLOBAL TECHNOLOGIES INC. By: L. E. KAMM	
	OHN B. TREANGEN Authorized Representative	

NOTARIAL CERTIFICATE (Corporation)

STATE OF MICHIGAN) SS		
County/Parish of Midland)		
On this and day of O	tober	, 20 <u>/O</u>	_, personally appeared
before me, JOHN B. TREANGE	N, Authorized Re	presentative,	
known or identified to me to be the in	idividual described	d in and who exec	tuted the foregoing documen

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 July 31, 2009, is based on

A delegation of signature authority of said Corporation

which I have seen, appointing the said individual Authorized Representative 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.

Rebusing She Hollingshead NOTARY PUSCO, VICENSE COUNTY, MICHIGAN MY CORRESS ON THE STREET ST. 2012

Elecca Sue Hollenghead

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RECORDED: 06/06/2016