

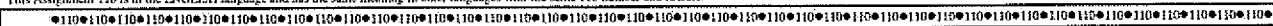
PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

EPAS ID: PAT6870657

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
MICHAEL A BRAMMER	06/04/2018
WILLIAM N. FELSTED II	12/04/2018
RECEIVING PARTY DATA	
Name:	THE DOW CHEMICAL COMPANY
Street Address:	2030 DOW CENTER
City:	MIDLAND
State/Country:	MICHIGAN
Postal Code:	48674
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	17040287
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:	989-636-2884
Email:	FGLMFRR@dow.com
Correspondent Name:	DANNY CHILDS
Address Line 1:	2211 H. H. DOW WAY
Address Line 2:	SSC 1338
Address Line 4:	MIDLAND, MICHIGAN 48674
ATTORNEY DOCKET NUMBER:	82127-US-PCT
NAME OF SUBMITTER:	DANNY CHILDS
SIGNATURE:	/Danny Childs/
DATE SIGNED:	08/18/2021
Total Attachments: 3	
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source=Inventors to DCC#page2.tif	
source=Inventors to DCC#page3.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



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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: **METHODS FOR SLOWING DEACTIVATION OF A CATALYST AND/OR SLOWING TETRAPHOSPHINE LIGAND USAGE IN HYDROFORMYLATION PROCESSES**

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:

The Dow Chemical Company
2030 Dow Center
Midland, Michigan 48674
United States of America

an entity 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
62/677,858	May 30, 2018	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: Freeport, TX
 this 4th day of June, 20 18
 Effective as of May 30, 2018

Signature: Michael A. Brammer
 Full Name: Michael A. Brammer
 Mailing Address: 2301 Brazosport Boulevard
 B-1450 Building
 Freeport, Texas 77541
 United States of America

At: _____
 this _____ day of _____, 20 ____
 Effective as of May 30, 2018

Signature: _____
 Full Name: William N. Felsted, II
 Mailing Address: 2301 Brazosport Boulevard
 B-1450 Building
 Freeport, Texas 77541
 United States of America

At: _____
 this _____ day of _____, 20 ____

Signature: _____
 Full Name: _____
 Mailing Address: _____

At: _____
 this _____ day of _____, 20 ____

Signature: _____
 Full Name: _____
 Mailing Address: _____

At: _____
 this _____ day of _____, 20 ____

Signature: _____
 Full Name: _____
 Mailing Address: _____

At: _____
 this _____ day of _____, 20 ____

Signature: _____
 Full Name: _____
 Mailing Address: _____

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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: METHODS FOR SLOWING DEACTIVATION OF A CATALYST AND/OR SLOWING TETRAPHOSPHINE LIGAND USAGE IN HYDROFORMYLATION PROCESSES

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:

The Dow Chemical Company
2030 Dow Center
Midland, Michigan 48674
United States of America

an entity 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

Table with 3 columns: Priority Number (62/677,858), Filing Date (May 30, 2018), Filing Country (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:

Signature box for Michael A. Brammer, dated May 30, 2018, with full name and mailing address in Freeport, Texas.

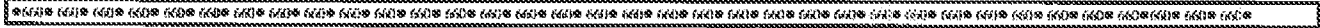
Signature box for William N. Felsted, II, dated 4th day of December, 2018, with full name and mailing address in Freeport, Texas.

Empty signature box with fields for At, Signature, Full Name, and Mailing Address.

Empty signature box with fields for At, Signature, Full Name, and Mailing Address.

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Empty signature box with fields for At, Signature, Full Name, and Mailing Address.



ASSIGNEE ACCEPTANCE

WE, the ASSIGNEE: **THE DOW CHEMICAL COMPANY**
2030 Dow Center
Midland, Michigan 48674
United States of America

hereby accept the ASSIGNMENT which is dated: June 4, 2018 and December 4, 2018

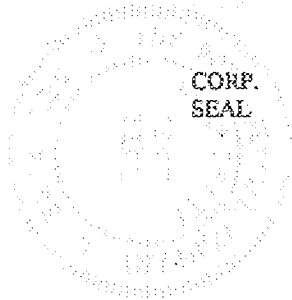
From, the ASSIGNORS: Michael A. Brammer, residing at 2301 Brazosport Boulevard, B-1450 Building, Freeport, Texas 77541, United States of America and William N. Felsted, II, residing at 2301 Brazosport Boulevard, B-1450 Building, Freeport, Texas 77541, United States of America

of the invention entitled:

METHODS FOR SLOWING DEACTIVATION OF A CATALYST AND/OR SLOWING TETRAPHOSPHINE LIGAND USAGE IN HYDROFORMYLATION PROCESSES

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 12th day of December, 20 18



THE DOW CHEMICAL COMPANY

By: D.P. Frickey
DARRYL P. FRICKEY
Authorized Representative