505234584 12/13/2018

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5281354

SUBMISSION TYPE:		NEW ASSIGNMENT	NEW ASSIGNMENT		
NATURE OF CONVEYA	ANCE:	ASSIGNMENT	ASSIGNMENT		
CONVEYING PARTY	ΔΤΑ				
		Name		Execution Date	
THE DOW CHEMICAL	COMPAN	IY		05/31/2017	
RECEIVING PARTY D	ΔΤΔ				
Name:		GLOBAL TECHNOLOGIES LLC	;		
Street Address:	2040 [OW CENTER			
City:	MIDLA	ND			
State/Country:	МІСНІ	GAN			
Postal Code:	48674				
	•				
PROPERTY NUMBER	S Total: 1				
Property Type)	Number	Number		
Application Number:		16309548	9548		
CORRESPONDENCE	DATA				
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NAME OF SUBMITTER	:	KATHERINE GHEARING	KATHERINE GHEARING		
SIGNATURE:		/Katherine Ghearing/	/Katherine Ghearing/		
DATE SIGNED:		12/13/2018	12/13/2018		
DATE SIGNED.		Total Attachments: 2 source=Assign - Chemical to Global#page1.tif source=Assign - Chemical to Global#page2.tif			

ASSIGNEE ACCEPTANCE

WE, the ASSIGNEE:

DOW GLOBAL TECHNOLOGIES LLC 2040 Dow Center Midland, Michigan 48674 United States of America

hereby accept the ASSIGNMENT which is dated: <u>May 31, 2017</u>; effective as of June 17, 2016

From, the ASSIGNOR:

THE DOW CHEMICAL COMPANY 2030 Dow Center Midland, Michigan 48674 United States of America

of the invention entitled:

SYSTEM COMPONENTS OF FLUID CATALYTIC REACTOR SYSTEMS

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 🤇 🖉	day of <u>June</u> , 20 <u>17</u>
CORP SEAL	Br: Avala M Lewy
	SUSAN M. ZERULL Authorized Representative

ASSIGNMENT

(with Priority Rights) and

INVENTORSHIP DECLARATION

We, ASSIGNOR, of:

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, United States of America do hereby claim and declare that we hold the invention and all patent and other rights and powers obtainable or exercisable in respect thereof from the sole, true and first inventor(s):

Donald F. Shaw, at 7 Magnolia Ave, Denville, New Jersey 07834, United States of America

by an Assignment dated: April 11, 2017 of an invention relating to and entitled:

SYSTEM COMPONENTS OF FLUID CATALYTIC REACTOR SYSTEMS

We do hereby declare, for good and valuable consideration effective as of June 17, 2016, received, sell, assign, and transfer unto:

WE, the ASSIGNEE:

DOW GLOBAL TECHNOLOGIES LLC 2040 Dow Center Midland, Michigan 48674 United States of America

an entity **organized and existing under the laws of the State of Delaware**, **United States of America** our entire right, title and interest throughout the world, in and to the invention and all rights and powers to make application for Letters Patent in its own name, or in the name of its nominee; and all rights and powers to file any reissue, divisional, continuing or substitute application and any corresponding applications in any and all countries, including all rights to claim priority under all International Conventions and Treaties in the name of said Assignee, and do hereby authorize said Assignee to insert here the Priority Number, Filing Date, and Filing Country

Priority Number	Filing Date	Filing Country	
62/351,591	June 17, 2016	United States of America	

of the application on which the priority will be based; and in and to any Letters Patent that may be issued for said invention in any and all countries; and we do hereby agree to assist said Assignee in the prosecution of the said applications and in any interference, conflict, opposition or litigation which may arise involving said invention or the patent or patents thereon, and to execute any reissue, divisional, continuing or substitute application and assent to their making any applications in other countries corresponding to the above and below specifically identified application, as may be requested by said Assignee; and we do hereby authorize said Assignee to insert here the corresponding Application Number, Filing Date, and Filing Country

Application Number	Filing Date	Filing Country

of the corresponding application in any country where that patent property must be entered for recordal of this Assignment; and we do hereby authorize and request that any such Letters Patent be issued to said Assignee in accordance herewith, and consent to the recordal of this Assignment being under covenant, not only that 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 Sworn by us at Midland, Michigan 48674, USA

this	3) day of	Mary	, 20 \ 7
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ng di siy			THE DOW CHEMICAL COMPANY
<u> </u>	CORP. SEAL		
			DARRYL P. FRICKEY
			Authorized Representative

RECORDED: 12/13/2018