504319893 04/13/2017

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4366575

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
CARMAGEN ENGINEERING	05/05/2015

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:	15032401

CORRESPONDENCE DATA

Fax Number: (937)449-6405

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: 9374496400

Email: katherine.ghearing@dinsmore.com

Correspondent Name: DINSMORE & SHOHL LLP

Address Line 1: FIFTH THIRD CENTER, ONE S. MAIN ST.

Address Line 2: SUITE 1300

Address Line 4: DAYTON, OHIO 45402

ATTORNEY DOCKET NUMBER:	75034-US-PCT
NAME OF SUBMITTER:	KATHERINE GHEARING
SIGNATURE:	/Katherine Ghearing/
DATE SIGNED:	04/13/2017

Total Attachments: 3

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PATENT 504319893 REEL: 041997 FRAME: 0366

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This Assignment 440 is in the ENGLISH language and has the same meaning in other languages with the same 440 number. FORM 440

ASSIGNMENT

(with Priority Rights)

INVENTORSHIP DECLARATION

We, ASSIGNOR, of:

CARMAGEN ENGINEERING

4 West Main Street Rockaway, NJ 07866 United States of America

an entity **organized and existing under the laws of the State of New Jersey, 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):

Don F. Shaw, 7 Magnolia Ave, Denville, New Jersey 07834, United States of America and Richard E. Walter, 157 Black River Road, Long Valley, New Jersey 07853, United States of America

by an Assignment dated: January 28, 2014 and January 16, 2014, respectively of an invention relating to and entitled:

CYCLONIC REACTOR VESSEL HAVING A LOW RESIDENCE TIME PLENUM

We do hereby declare, for good and valuable consideration effective as of October 29, 2013, received, sell, assign, and transfer unto:

WE, the ASSIGNEE:

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 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
61/896.682	October 29, 2013	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 Rockway, NJ 07866
this day of , 20 / 5

CARMAGEN ENGINEERING

CORP. SEAL

Lori Carucci

Attach Notarial Certificate

PATENT REEL: 041997 FRAME: 0367 This Assignce 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:

THE DOW CHEMICAL COMPANY

2030 Dow Center

Midland, Michigan 48674 United States of America

hereby accept the ASSIGNMENT which is dated: _ effetive as of October 29, 2013

May 27, 2015

From, the ASSIGNOR:

CARMAGEN ENGINEERING

4 West Main Street Rockaway, NJ 07866 United States of America

of the invention entitled:

CYCLONIC REACTOR VESSEL HAVING A LOW RESIDENCE TIME PLENUM

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 Mi	lland, Michigan 48674, USA
this 27 day	of May , 2015
	\int
	THE DOW CHEMICAL COMPANY
CORP.	I M range
SEAL	Die July de la
	Ву:
	DARRYL P. FRICKEY \
4.00	Authorized Representative

NOTARIAL CERTIFICATE

UNITED STATES OF AMERICA)
STATE OF MICHIGAN) SS
County/Parish of Midland)
On this 27 day of May	, 20 <u>15</u> , personally appeared
before me. DARRYL P. FRICKEY, Air	thorized Representative.

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 entity organized and existing under the laws of the State of Delaware, United States of America.

I further certify that said authority, dated July 12, 2013, is based on

a Certified Resolution

which I have seen, appointing the said individual Authorized Representative 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

Mathy Sue Wertz

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

PATENT REEL: 041997 FRAME: 0368 This Notarial Certificate 550 is in the ENGLISH language and has the same meaning in other languages with the same 550 number.

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This Notarial Certificate 550 is in the ENGLISH language and has the same meaning in other languages with the same 550 number. FORM 550

NOTARIAL CERTIFICATE

UNITED STATES OF AMERICA)
STATE OF NEW JERSEY) SS
County/Parish of Morris)
On this 5h day of M	4, 20 15, personally appeared
before me, Lori Carucci, VP Operation	ns.

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 entity organized and existing under the laws of the State of New Jersey, United States of America.

which I have seen, appointing the said individual with full power to sign the forgoing 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

Brigitte Mesa Notary Public State of New Jersey My Commission Expires 1/4/2018 ID# 2428505

> PATENT REEL: 041997 FRAME: 0369

RECORDED: 04/13/2017