505018914 07/25/2018

PATENT ASSIGNMENT COVER SHEET

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Stylesheet Version v1.2

SUBMISSION TYPE:NEW ASSIGNMENTNATURE OF CONVEYANCE:ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
GAURAV AGRAWAL	05/08/2018
STEPHEN T. COHN	06/29/2018
KAPIL KANDEL	06/26/2018
SUBRAMANYA V. NAYAK	05/10/2018
TENG XU	05/07/2018

RECEIVING PARTY DATA

Name:	EXXONMOBIL CHEMICAL PATENTS INC.
Street Address:	5200 BAYWAY DRIVE
City:	BAYTOWN
State/Country:	TEXAS
Postal Code:	77520

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15971590

CORRESPONDENCE DATA

Fax Number: (346)259-2495

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: 3462591396

Email:chem.law.prosecution@exxonmobil.comCorrespondent Name:EXXONMOBIL CHEMICAL COMPANY

Address Line 1: 5200 BAYWAY DRIVE

Address Line 2: P.O. BOX 2149

Address Line 4: BAYTOWN, TEXAS 77522-2149

ATTORNEY DOCKET NUMBER: 2017EM140-US-2

NAME OF SUBMITTER: GERARD J. HUGHES

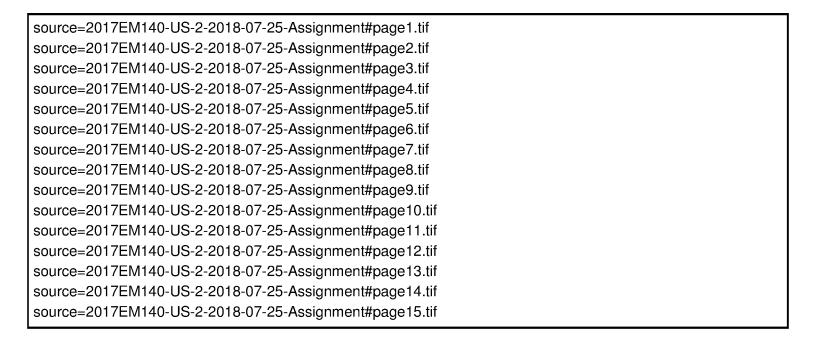
SIGNATURE: /Gerard J. Hughes/

DATE SIGNED: 07/25/2018

Total Attachments: 15

PATENT REEL: 046452 FRAME: 0519

505018914



PATENT REEL: 046452 FRAME: 0520

INVENTOR(S):

Gaurav Agrawal	Stephen T. Cohn	
Kapil Kandel	Subramanya V. Nayak	
Teng Xu		

In consideration of One Dollar (\$1.00) and other good and valuable consideration, the receipt of and/or promise of payment which is hereby acknowledged, the undersigned person(s) named above, herein referred to as UNDERSIGNED, hereby agree(s) as follows:

UNDERSIGNED hereby assign(s) to ExxonMobil Chemical Patents Inc., a corporation of Delaware, its successors, legal representatives and assigns, herein referred to collectively as ASSIGNEE, the entire right, title and interest, for the United States and all foreign countries, in and to UNDERSIGNED'S invention or improvement and to all patent applications and patents covering same which is described in a patent application entitled:

"Upgrading Hydrocarbon Pyrolysis Products"

and being further identified as USSN Application No.: 15/971.590; Atty. Docket No. 2017EM140/2, filed. May 4, 2018, and all rights of priority created by said application under provisions of international conventions or treaties.

- 2) UNDERSIGNED agree(s) upon the request of ASSIGNEE to execute any and all applications for and documents relating to obtaining patents and the prosecution thereof for said invention or improvement, and any continuations of such applications or substitutes therefore or registrations thereof, and any specific separate assignments of any of the above required for recording in the United States Patent and Trademark Office and any foreign patent office that ASSIGNEE may deem necessary or expedient.
- 3) UNDERSIGNED agree(s) that in the event of any application based on said assigned invention or improvement, or patent issued thereon, or any reissue or application for the reissue thereof, becoming involved in priority of invention proceedings, UNDERSIGNED will cooperate with ASSIGNEE to the best of the ability of UNDERSIGNED in the matter of preparing and executing all documents and giving and producing evidence in support thereof.
- 4) UNDERSIGNED agree(s) to perform upon ASSIGNEE's request any and all affirmative acts to obtain United States and foreign patents covering said invention or improvement and to vest all rights therein hereby conveyed to ASSIGNEE, as fully and as entirely as the same would have been held and enjoyed by UNDERSIGNED if this assignment and sale had not been made.
- 5) UNDERSIGNED hereby authorize(s) ASSIGNEE's attorney to insert at paragraph 1, in this instrument the date on which the above-referenced patent application was filed, as well as the application number thereof when known.

IN VII Hetizonno	TNESS WHEREOF, this assignment hi NDERSIGNED'S NAME.	is been executed b	y UNDERSIGNED on the date
	05/05/18	Ganal	Accided (Inventor)
	ું દૈ. Johnson Witness (Print Name)		Witness (Signature)
DATE _			Stephen T. Cohn (Inventor)
	Witness (Print Name)		Witness (Signature)
DATE _			Kapil Kandel (Inventor)
	Witness (Print Name)		Witness (Signature)

	Subramanya V. Nayak (Inventor)
Witness (Print Name)	Witness (Signature)
	Teng Xu (Inventor)
Winner (Bain Name)	Witness (Signature)
	Witness (Print Name)

INVENTOR(S):

Gaurav Agrawal	Stephen T. Cohn
Kapil Kandel	Subramanya V. Navak
Teng Xu	

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DATE	
	Gaurav Agrawal (Inventor)
Witness (Print Name)	Witness (Signature)
DATE 6/29/2018	Agis. Gl
Jeffey Jel Wikness/Prini Name)	Stephen T. Cohn (Inventor) Witness (Signature)
DATE	
UKIE	Kapil Kandel (Inventor)
Witness (Print Name)	Witness (Signature)

13/41 E		
		Subramanya V. Nayak (Inventor)
	Witness (Print Name)	Witness (Signature)
DATE		Teng Xu (Inventor)
		* ****g **** (111.***)**(11)
	Witness (Print Name)	Witness (Signature)

INVENTOR(S):

Gaurav Agrawal	Stephen T. Cohn	
Kapil Kandel	Subramanya V. Nayak	
Teng Xu		

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Page 1 of 3

PATENT REEL: 046452 FRAME: 0527

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DATE		
		Gaurav Agrawal (Inventor)
	Witness (Print Name)	Witness (Signature)
DATE _		Stephen T. Cohn (Inventor)
**************************************	Witness (Print Name)	Witness (Signature)
DATE	06/26/2018	Land.
gerry g	Con Aldria d	Kapil Kandel (Inventor)
	Sasc Sastron.+ Witness (Print Name)	Witness (Signature)

REEL: 046452 FRAME: 0528

DAIL		
		Subramanya V. Nayak (Inventor)
		XV. (G.
	Witness (Print Name)	Witness (Signature)
DATE		
		Teng Xu (Inventor)
	Witness (Print Name)	Witness (Signature)

INVENTOR(S):

Gaurav	Agrawal	Stephen T. Cohn	
Kapil	Kandel	Subramanya V. Nayak	
Ten	ıg Xu		

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2007		
DATE		Gaurav Agrawal (inventor)
	Witness (Print Name)	Witness (Signature)
DATE		Stephen T. Cohn (Inventor)
	Witness (Print Name)	Witness (Signature)
DATE		Kapil Kandel (Inventor)
	Witness (Print Name)	Witness (Signature)

DATE	10 - MAY - 18	<u>Jana</u>
ŝ	Zie Chasia	Subramañya V. Nayak (Inventor)
	Witness (Print Name)	Witness (Signature)
DATE		Teng Xu (Inventor)
	Witness (Print Name)	Witness (Signature)

INVENTOR(S):

Gaurav	Agrawal	Stephen T. Cohn
Kapil	Kandel	Subramanya V. Nayak
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DATE		Kapil Kandel (Inventor)
	Witness (Print Name)	Witness (Signature)
DATE		Stephen T. Cohn (Inventor)
	Witness (Print Name)	Witness (Signature)
		Gaurav Agrawal (Inventor)
DATE		

UAIL		Subramanya V. Nayak (Inventor)
***************************************	Witness (Print Name)	Witness (Signature)
DATE	05/07/2018	The state of the s
<u>_M</u>	onia Lote Witness (Print Name)	Teng Xu (Inventor) Witness (Signature)