505186460 11/12/2018

EPAS ID: PAT5233229

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

SUBMISSION TYPE: NEW ASSIGNMENT

NATURE OF CONVEYANCE: ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
MARK L. HLAVINKA	06/10/2016
MAX P. MCDANIEL	06/07/2016
PASQUALE IACONO	06/10/2016

RECEIVING PARTY DATA

Name:	CHEVRON PHILLIPS CHEMICAL COMPANY LP		
Street Address:	10001 SIX PINES DRIVE		
City:	THE WOODLANDS		
State/Country:	TEXAS		
Postal Code:	77380		

PROPERTY NUMBERS Total: 2

Property Type	Number
Application Number:	15684992
Application Number:	15864018

CORRESPONDENCE DATA

Fax Number:

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.

Email: iplaw@cpchem.com

Correspondent Name: CHEVRON PHILLIPS CHEMICAL COMPANY LP

Address Line 1: 10001 SIX PINES DRIVE

Address Line 2: IP DEPT

Address Line 4: THE WOODLANDS, TEXAS 77380

ATTORNEY DOCKET NUMBER: 211601US04 & 05

NAME OF SUBMITTER: MELISSA MOSBY

SIGNATURE: /Melissa Mosby/

DATE SIGNED: 11/12/2018

Total Attachments: 3

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PATENT 505186460 REEL: 047477 FRAME: 0673

ASSIGNMENT

FOR GOOD AND VALUABLE CONSIDERATION, the receipt, sufficiency and adequacy of which are hereby acknowledged, the undersigned, do hereby:

SELL, ASSIGN AND TRANSFER to Chevron Phillips Chemical Company LP (the "Assignee"), a corporation of the State of Delaware, having a place of business at 10001 Six Pines Drive, The Woodlands, Texas 77380, the entire right, title and interest for the United States and all foreign countries in and to any and all improvements which are disclosed in the application for United States Letters Patent, which has been executed by the undersigned concurrently herewith and is entitled "Methods for the Production of α,β-Unsaturated Carboxylic Acids and Salts Thereof," with joint inventors Mark L. Hlavinka, Max P. McDaniel, and Pasquale Iacono, filed in the U.S. Patent and Trademark Office on April 6, 2016, and assigned Serial No. 15/091,794; such application and all divisional, continuing, substitute, renewal, reissue and all other applications for patent which have been or shall be filed in the United States and all foreign countries on such improvements; all original and reissued patents which have been or shall be issued in the United States and all foreign countries on such improvements; and specifically including the right to file foreign applications under the provisions of any convention or treaty and claim priority based on such application in the United States;

AUTHORIZE AND REQUEST the issuing authority to issue any and all United States and foreign patents granted on such improvements to the Assignee;

WARRANT AND COVENANT that no assignment, grant, mortgage, license or other agreement affecting the rights and property berein conveyed has been or will be made to others by the undersigned, and that the full right to convey the same as herein expressed is possessed by the undersigned;

COVENANT, when requested and at the expense of the Assignee, to carry out in good faith the intent and purpose of this assignment, the undersigned will (1) execute all divisional, continuing, substitute, renewal, reissue, and all other patent applications on any and all such improvements; (2) execute all rightful oaths, declarations, assignments, powers of attorney and other papers; (3) communicate to the Assignee all facts known to the undersigned relating to such improvements and the history thereof; (4) cooperate with the Assignee in any interference, opposition, dispute, or litigation involving any of the applications or patents for such improvements; and (5) generally do everything possible which the Assignee shall consider desirable for vesting title to such improvements in the Assignee, and for securing, maintaining and enforcing proper patent protection for such improvements;

TO BE BINDING on the heirs, assigns, representatives and successors of the undersigned and extend to the successors, assigns and nominees of the Assignee.

(Signature):	Date: 6/10/20(6
Name: MARK L, HLAVINKA	
STATE OF URLA MANA \$	
COUNTY OF Washington & S.	
	ay or Alde , 2016, personally appeared
MARK L. HLAVINKA, known to me to be the person whose name	
to me that he executed the same of his own free will for the purposes and	i consideration therein expressed.
SANAS:	Pener Oxaan
	Notary of Consults Officer
[SEAU]	destination and the same of th
102\$776(1	D. RENEE GAGAN Notary Public, State of Okiahoma Commission # 16003898 Page 1 of 2
	My Commission Expires May 11, 2018

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MA DN. N	
(Signature): // /////////////////////////////////	March Date: 74/14 1,20/6
1 mars 1 -	V.
STATE OF SKULPOTY A	§ SS.
COUNTY OF LEASURG LOVE	* _ h _
BEFORE ME, the undersigned authority, or	
P. MCDANIEL, known to me to be the person who he executed the same of his own free will for the purp	se name subscribed to the foregoing instrument and acknowledged to me that
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1000
	D. Vene Cagas
(19) (19) (19) (19) (19) (19) (19) (19)	Notary or Eghsular Difficer
	D. RENEE GAGAN Notary Public, State of Oklahoma
경상 현재를 가지 있다. 전 1944년 - 1일 전 1일	Commission # 10003898 My Commission Expires May 11, 2018
(Signature):	Date:
Name: PASQUALE IACONO	
STATE OF	\$
COUNTY OF	§ ss. S
	" " " " " " " " " " " " " " " " " " "
PASQUALE IACONO, known to me to be the pers	n thisday of, 2016, personally appeared son whose name subscribed to the foregoing instrument and acknowledged to
me that he executed the same of his own free will for	the purposes and consideration therein expressed.
	Notary or Consular Officer
[SEAL]	

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PATENT 211601US01 M&G 60293.0127US11

(Signature):		Date:
Name: MAX P. MCDANIEL		
STATE OF	§:	
COUNTY OF	§ § 88. §	
	son whose	day of, 2016, personally appeared e name subscribed to the foregoing instrument and acknowledged to oses and consideration therein expressed.
[SEAL]		Notary or Consular Officer
	<i>*</i>	6/10/16
STATE OF CLASSICAL STATE OF CREATER OF CREAT	<i>**</i>	Date:
BEFORE ME, the undersigned authority, PASQUALE IACONO, known to me to be the per	rson whos	se name subscribed to the foregoing instrument and acknowledged to
me that he executed the same of his own free will for the purposes and consideration therein expressed.		
JSEALI		Notary of Consults Officer D. SENEE GAGAN Notary Public, State of Oklahoma Commission # 10603696 My Commission Expires May 11, 2018

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