•	Docket No.: 2006EM215
FORM PTO-1595 (Modified) (Rev. 03-01) 01 - 03 - 200)7 SHEET U.S. DEPARTMENT OF COMMERCE
OMB No. 0651-0027 (exp.5/31/2002)	Patent and Trademark Office
P08A/REV04	· I
Tab settings → → → ▼	A V V
To the Director of the United St. 10335553	4 cord the attached original documents or copy thereof.
Name of conveying party(ies):	2. Name and address of receiving party(ies):
Frank Hershkowitz 12/20/06	
John S. Buchanan 12/20/06 Harry W. Deckman 12/20/06	Name: ExxonMobil Chemical Patents Inc.
Jeffrey W. Frederick 12/20/06	Address: 13501 Katy Freeway
Additional names(s) of conveying party(ies)	1,610 U
3. Nature of conveyance:	113
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☐ Assignment ☐ Merger	
☐ Security Agreement ☐ Change of Name	City: Houston State/Prov.: Texas
Other	Country: USA ZIP: 77079
Execution Date: December 20, 2006	
	Additional name(s) & address(es) ☐ Yes ☒ No
4. Application number(s) or patent numbers(s):	
If this document is being filed together with a new application,	the execution date of the application is: December 21, 2006
Patent Application No. Filing date	B. Patent No.(s)
AWAITED December 21, 2006	
AWAITED December 21, 2006	
Additional numbers	⊠ Yes □ No
Name and address of party to whom correspondence concerning document should be mailed:	6. Total number of applications and patents involved:
Name: Rick F. James	7. Total fee (37 CFR 3.41):\$ 40.00
Name.	7. Total fee (37 CFR 3.41):\$ 40.00
Registration No. 48,772	⊠ Enclosed - Any excess or insufficiency should be
Address: ExxonMobil Chemical Company	credited or debited to deposit account
Law Technology	☐ Authorized to be charged to deposit accent
P O Box 2149	8. Deposit account number: 입다.
City: Baytown State/Prov.: Texas	
Country: USA ZIP: 77522-2149	্র স্ক্র (Attach duplicate copy of this page if paying by depos
DO NO	T USE THIS SPACE
Statement and signature.	4
To the best of my knowledge and belief, the foregoing inform of the original document.	mation is true and correct and any attached copy
Rick F. James	December 21,3006
Name of Person Signing	Signature Date:
1	ver sheet, attachments, and document:
	ith required cover sheet information to:

Mail Stop Assignment Recordation Services
Director of the United States Patent and Trademark Office
P.O. Box 1450, Alexandria, VA 22313-1450

Attorney Initials: Kg

ASSIGNMENT

INVENTOR or INVENTORS:

FRANK HERSHKOWITZ		HARRY W. DECKMAN	
JOHN SCOTT BUCHANAN		JEFFREY W. FREDERICK	
promise of p	ion of One Dollar (\$1.00) and other goo payment which is hereby acknowledged UNDERSIGNED, hereby agree(s) as fo	ed and valuable consideration, the receipt of and/or i, the undersigned person(s) named above, herein illows:	
1)	of the State of Delaware, its successor to collectively as ASSIGNEE, the enti all foreign countries, in and to UNDI	ExxonMobil Chemical Patents Inc., a corporation is, legal representatives and assigns, herein referred ire right, title and interest, for the United States and ERSIGNED'S invention or improvement and to all ing same which is described in a patent application	
	"METHANE CONVERSION	TO HIGHER HYDROCARBONS"	
and t	application having been executed on the _oeing further identified as Case No. 200 cation under provisions of international contents.	day(s) of <u>December</u> 2006, 16EM215; and all rights of priority created by said inventions or treaties.	
2)	applications for and documents relating	request of ASSIGNEE to execute any and all ng to obtaining patents and the prosecution thereof and any continuations of such applications or	

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.

any foreign patent office that ASSIGNEE may deem necessary or expedient.

substitutes therefor 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

- 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(s) on which UNDERSIGNED executed the Declaration for the above-referenced patent application.

Attorney Initials: R9

o	IN WITNESS WHEREOF, this ass pposite UNDERSIGNED'S NAME.	ignment has been executed by UNDERSIGNED on the date
DATE	Dec 20, 2006	Johables)
	Je Ma	FRANK HERSHKOWITZ
		Witness
DATE		
		JOHN SCOTT BUCHANAN
		Witness
DATE		
		HARRY W. DECKMAN
		Witness
DATE		
-		JEFFREY W. FREDERICK

Witness

entitled

Attorney Initials: 19

ASSIGNMENT

INVENTOR or INVENTORS:

FRANK HERSHKOWITZ		HARRY W. DECKMAN	
JOHN SCOTT BUCHANAN		JEFFREY W. FREDERICK	
promise of	tion of One Dollar (\$1.00) and other good payment which is hereby acknowledged as UNDERSIGNED, hereby agree(s) as for	od and valuable consideration, the receipt of and/or d, the undersigned person(s) named above, herein ollows:	
1)	of the State of Delaware, its successo	o ExxonMobil Chemical Patents Inc., a corporation ors, legal representatives and assigns, herein referred tire right, title and interest, for the United States and	

"METHANE CONVERSION TO HIGHER HYDROCARBONS"

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

said application having been executed on the 2006 day(s) of December 2006, and being further identified as Case No. 2006EM215; 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 therefor 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.
- 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(s) on which UNDERSIGNED executed the Declaration for the above-referenced patent application.

REEL: 018737 FRAME: 0640

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				Attorney Initials: **/
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WITNESS WHERE	OF, this assig	nment has bee	n executed l	by UNDERSIGNED on the date
IDERSIGNED'S NA	IME.		•	
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AM				
				FRANK HERSHKOWITZ
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			<u> </u>	HARRY W. DECKMAN
		·		HARRE W. DECRUMIN
		Witness		
				JEFFREY W. FREDERICK
	WITNESS WHERE NOERSIGNED'S NA	NDERSIGNED'S NAME.	Witness	20, 2006 Show T. Buchanan Witness

PATENT

REEL: 018737 FRAME: 0641

Attorney Initials: Rg

ASSIGNMENT

INVENTOR or INVENTORS:

FRANK HERSHKOWITZ	HARRY W. DECKMAN		
JOHN SCOTT BUCHANAN	JEFFREY W. FREDERICK		

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 the State 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

"METHANE CONVERSION TO HIGHER HYDROCARBONS"

said application having been executed on the day(s) of December 2006, and being further identified as Case No. 2006EM215; and all rights of priority created by said application under provisions of international conventions or treaties.

- 2) UNDERSIGNED agrec(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 therefor 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(s) on which UNDERSIGNED executed the Declaration for the above-referenced patent application.

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PATENT REEL: 018737 FRAME: 0642

Attorney Initials: <u>Rg</u>

IN WITNESS WHEREOF, this assignment has been executed by UNDERSIGNED on the date opposite UNDERSIGNED'S NAME.

DATE				
				FRANK HERSHKOWITZ
	_	74-1	Witness	
DATE		w.		
				JOHN SCOTT BUCHANAN
	-		Witness	- Market
DATE	December	90, 9 c c c	9hr W.	D.L.
		20,2000 Olivia o	1. Payten	HARRY W. DECKMAN
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DATE				Ma 4
				JEFFREY W. FREDERICK
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entitled

12/20/2006

Attorney Initials: 199

ASSIGNMENT

INVENTOR or INVENTORS:

FRANK HERSHKOWITZ	HARRY W. DECKMAN	
JOHN SCOTT BUCHANAN	JEFFREY W. FREDERICK	
In consideration of One Dollar (\$1.00) and other goo promise of payment which is hereby acknowledged	od and valuable consideration, the receipt of and/or	
referred to as UNDERSIGNED, hereby agree(s) as for	11	

UNDERSIGNED hereby assign(s) to ExxonMobil Chemical Patents Inc., a corporation 1) of the State 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

"METHANE CONVERSION TO HIGHER HYDROCARBONS"

day(s) of December 2006, said application having been executed on the and being further identified as Case No. 2006EM215; 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 therefor 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(s) on which UNDERSIGNED executed the Declaration for the above-referenced patent application.

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PATENT REEL: 018737 FRAME: 0644

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IN WITNESS WHEREOF, this assignment has been executed by UNDERSIGNED on the date opposite UNDERSIGNED'S NAME.

JAIE	
	FRANK HERSHKOWITZ
	Witness
DATE	
	JOHN SCOTT BUCHANAN
	Witness
DATE	
	HARRY W. DECKMAN
····	Witness
DATE 12/20/06	Jeffer Frederk
	JEFFREY W. FREDERICK
	Witness

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RECORDED: 12/21/2006