PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
S. Mark Davis	07/29/2010
Larry L. laccino	07/28/2010
Richard C. Stell	07/28/2010
Steven E. Silverberg	08/03/2010
Jiunn-Shyan Liou	07/29/2010
Howard Freund	07/29/2010

RECEIVING PARTY DATA

Name:	ExxonMobil Chemical Patents Inc.	
Street Address:	13501 Katy Freeway	
City:	Houston	
State/Country:	TEXAS	
Postal Code:	77079	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	12833485

CORRESPONDENCE DATA

(281)834-0135 Fax Number:

Correspondence will be sent via US Mail when the fax attempt is unsuccessful.

281-834-1571 Phone:

Email: linda.l.thompson@exxonmobil.com Correspondent Name: **ExxonMobil Chemical Company**

Address Line 1: 5200 Bayway Drive P.O. Box 2149 Address Line 2:

Address Line 4: Baytown, TEXAS 77522-2149

ATTORNEY DOCKET NUMBER: 2010EM008 (813106)

REEL: 024835 FRAME: 0620

PATENT

Total Attachments: 15 source=201008042010EM008Assignment#page1.tif source=201008042010EM008Assignment#page2.tif source=201008042010EM008Assignment#page3.tif source=201008042010EM008Assignment#page4.tif source=201008042010EM008Assignment#page5.tif source=201008042010EM008Assignment#page5.tif source=201008042010EM008Assignment#page6.tif source=201008042010EM008Assignment#page7.tif source=201008042010EM008Assignment#page8.tif source=201008042010EM008Assignment#page9.tif source=201008042010EM008Assignment#page10.tif source=201008042010EM008Assignment#page11.tif source=201008042010EM008Assignment#page12.tif

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> PATENT REEL: 024835 FRAME: 0621

INVENTOR(S):

S. Mark DAVIS	Larry L. IACCINO
Richard C. STELL	Steven E. SILVERBERG
Jiunn-Shyan LIOU	Howard FREUND

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:

1) 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:

"INTEGRATED VACUUM RESID TO CHEMICALS CONVERSION PROCESS"

and being further identified as USSN Application No.: <u>12/833,485</u>; Atty. Docket No. <u>2010EM008</u>, filed, <u>July 9, 2010</u>, 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 V opposite	WITNESS WHEREOF, this assignment LUNDERSIGNED'S NAME.	t has been executed by UNDERSIGNED on the date
DATE	July 29, 2010	S. Mark DAVIS (Inventor)
Participan	TASON DAVIS Witness (Print Name)	Witness (Signature)
DATE		Larry L. IACCINO (Inventor)
	Witness (Print Name)	Witness (Signature)
DATE		Richard C. STELL (Inventor)
none de la constitución de la co	Witness (Print Name)	Witness (Signature)
DATE		Steven E. SILVERBERG (Inventor)
	Witness (Print Name)	Witness (Signature)

DATE		
		Jiunn-Shyan LIOU (Inventor)
	Witness (Print Name)	Witness (Signature)
DATE		
		Howard FREUND (Inventor)
	W' /D' / M	W' (G'
	Witness (Print Name)	Witness (Signature)

Page 3 of 3

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DATE		
		S. Mark DAVIS (Inventor)
Witness (Pr	int Name)	Witness (Signature)
DATE 7/28/2010	— <i>-</i> 6	Larry L. IACCINO (Inventor)
Tonya M. Hebert Dor Witness (Pr	natto int Name)	My Mo Debert Donatho Witness (Signature)
DATE		Richard C. STELL (Inventor)
Witness (Pr	int Name)	Witness (Signature)
DATE		Steven E. SILVERBERG (Inventor)
Witness (Pr	int Name)	Witness (Signature)

DATE		
		Jiunn-Shyan LIOU (Inventor)
	Witness (Print Name)	Witness (Signature)
DATE		
		Howard FREUND (Inventor)
	Witness (Print Name)	Witness (Signature)

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DATE 7/28/10	Richard C. STELL (Inventor)
NEERAJ SANGAR Witness (Print Name)	
DATE	Steven E. SILVERBERG (Inventor)
Witness (Print Name)	Witness (Signature)

DATE		
		Jiunn-Shyan LIOU (Inventor)
Managaraha Managarayang da Aprox, 234,000 Aprox 2010		
	Witness (Print Name)	Witness (Signature)
DATE		
DATE	·	Howard FREUND (Inventor)
10000000000000000000000000000000000000		
	Witness (Print Name)	Witness (Signature)

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	Witness (Print Name)	Witness (Signature)
date 🗡	25. A 3,2010	Steven E. SILVERBERG (Inventor)
	Witness (Print Name)	Witness (Signature)

DATE		
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	Witness (Print Name)	Witness (Signature)
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		Howard FREUND (Inventor)
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	Witness (Print Name)	Witness (Signature)

DATE 7/29/10	Quin - Sum Li-
	Jiunn-Shyan LIOU (Inventor)
Krista Novstrup Witness (Print Name)	Witness (Signature)
DATE 7/29/10	Hal 2
	Howard FREUND (Inventor)
Krista Novstrup Witness (Print Name)	Witness (Signature)

RECORDED: 08/13/2010