

## PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT												
NATURE OF CONVEYANCE:	ASSIGNMENT												
CONVEYING PARTY DATA													
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>John W. Viets</td> <td>04/22/2009</td> </tr> <tr> <td>Narasimhan Sundaram</td> <td>04/22/2009</td> </tr> <tr> <td>Bal K. Kaul</td> <td>04/22/2009</td> </tr> <tr> <td>David L. Stern</td> <td>04/29/2009</td> </tr> </tbody> </table>		Name	Execution Date	John W. Viets	04/22/2009	Narasimhan Sundaram	04/22/2009	Bal K. Kaul	04/22/2009	David L. Stern	04/29/2009		
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<table border="1"> <tr> <td>Name:</td> <td>ExxonMobil Research and Engineering Company</td> </tr> <tr> <td>Street Address:</td> <td>1545 Route 22 East</td> </tr> <tr> <td>Internal Address:</td> <td>P. O. Box 900</td> </tr> <tr> <td>City:</td> <td>Annandale</td> </tr> <tr> <td>State/Country:</td> <td>NEW JERSEY</td> </tr> <tr> <td>Postal Code:</td> <td>08801-0900</td> </tr> </table>		Name:	ExxonMobil Research and Engineering Company	Street Address:	1545 Route 22 East	Internal Address:	P. O. Box 900	City:	Annandale	State/Country:	NEW JERSEY	Postal Code:	08801-0900
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Application Number:	11795552												
CORRESPONDENCE DATA													
<p>Fax Number: (908)730-3649          Phone: 908-730-3675          Email: gail.f.summerfield@exxonmobil.com  <i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i></p> <p>Correspondent Name: ExxonMobil Research and Engineering Co.          Address Line 1: 1545 Route 22 East          Address Line 2: P. O. Box 900          Address Line 4: Annandale, NEW JERSEY 08801-0900</p>													
ATTORNEY DOCKET NUMBER:	P2005J094-US2(11/795,552)												
NAME OF SUBMITTER:	Bruce M. Bordelon												
Total Attachments: 1 source=P2005J094-US2(11-795552)-Assignment#page1.tif													

CH \$40.00 11795552

PATENT

USSN 11/795,552  
f. April 29, 2009

**ASSIGNMENT**  
**INVENTOR or INVENTORS:**

John W. Viets

Narasimhan Sundaram

Bal K. Kaul

David L. Stern

For good and valuable consideration, the undersigned person(s) named above, herein referred to as UNDERSIGNED, hereby agree(s) as follows:

1) UNDERSIGNED hereby assign(s) to ExxonMobil Research and Engineering Company (formerly Exxon Research and Engineering Company), 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

**HYDROCRACKING OF HEAVY FEEDSTOCKS WITH IMPROVED HYDROGEN MANAGEMENT**

said application having been executed on the 22nd and 29th day(s) of April 2009, and being further identified as Case Number P2005J094-US2; 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 to insert in this instrument the date(s) on which UNDERSIGNED executed the Declaration for the above-referenced patent application.

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

Date 4/22/09 Inventor John W. Viets (LS) Witness Will C. Lin

Date 4/22/09 Inventor Narasimhan Sundaram (LS) Witness Ji-Feng Chen

Date 4/22/09 Inventor Bal K. Kaul (LS) Witness Russell Og

Date 4/29/09 Inventor David L. Stern (LS) Witness Diane Stracka

Date \_\_\_\_\_ Inventor \_\_\_\_\_ (LS) Witness \_\_\_\_\_

Date \_\_\_\_\_ Inventor \_\_\_\_\_ (LS) Witness \_\_\_\_\_



27810

PATENT TRADEMARK OFFICE

Family Number: P2005J094-US2

**PATENT**

RECORDED: 03/08/2012

REEL: 027825 FRAME: 0704