

## PATENT ASSIGNMENT

Electronic Version v1.1  
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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>April D. Ross</td> <td>04/29/2012</td> </tr> <tr> <td>William J. Novak</td> <td>05/08/2012</td> </tr> <tr> <td>Thomas R. Halbert</td> <td>04/17/2012</td> </tr> <tr> <td>John P. Greeley</td> <td>04/10/2012</td> </tr> </tbody> </table>		Name	Execution Date	April D. Ross	04/29/2012	William J. Novak	05/08/2012	Thomas R. Halbert	04/17/2012	John P. Greeley	04/10/2012
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April D. Ross	04/29/2012										
William J. Novak	05/08/2012										
Thomas R. Halbert	04/17/2012										
John P. Greeley	04/10/2012										
RECEIVING PARTY DATA											
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										
PROPERTY NUMBERS Total: 1											
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>13424683</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13424683						
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Application Number:	13424683										
CORRESPONDENCE DATA											
Fax Number:	9087303649										
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>											
Phone:	908-730-3202										
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Correspondent Name:	ExxonMobil Research & Engineering Co.										
Address Line 1:	1545 Route 22 East										
Address Line 2:	P.O. Box 900										
Address Line 4:	Annandale, NEW JERSEY 08801-0900										
ATTORNEY DOCKET NUMBER:	2011EM083 US2										
NAME OF SUBMITTER:	Bruce M. Bordelon										

CH \$40.00 13424683

Signature:	/Bruce M. Bordelon/
Date:	09/19/2013
Total Attachments: 3 source=2011EM083 US2 USSN 13-424683 ASSIGNMENT#page1.tif source=2011EM083 US2 USSN 13-424683 ASSIGNMENT#page2.tif source=2011EM083 US2 USSN 13-424683 ASSIGNMENT#page3.tif	

ASSIGNMENT  
INVENTOR or INVENTORS:

April D. Ross                      Thomas R. Halbert                      William J. Novak                      John P. Greeley

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

HYDROPROCESSING METHODS UTILIZING CARBON OXIDE-TOLERANT CATALYSTS

said application having been executed on the 8<sup>th</sup> day(s) of May 2012, and being further identified as Case Number 2011EMO 83-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 4/29/12                      Inventor April D. Ross (LS)                      Witness Wendy Jones 4/29/12  
April D. Ross

Date \_\_\_\_\_                      Inventor \_\_\_\_\_ (LS)                      Witness \_\_\_\_\_  
Thomas R. Halbert

Date 5/8/12                      Inventor William J. Novak (LS)                      Witness Susan Fleming  
William J. Novak

Date \_\_\_\_\_                      Inventor \_\_\_\_\_ (LS)                      Witness \_\_\_\_\_  
John P. Greeley

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

ASSIGNMENT  
INVENTOR or INVENTORS:

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Date \_\_\_\_\_ Inventor April D. Ross (LS) Witness \_\_\_\_\_

Date 4/17/12 Inventor Thomas R. Halbert (LS) Witness Johnelle Minner

Date \_\_\_\_\_ Inventor William J. Novak (LS) Witness \_\_\_\_\_

Date \_\_\_\_\_ Inventor John P. Greeley (LS) Witness \_\_\_\_\_

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

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INVENTOR or INVENTORS:

April D. Ross                      Thomas R. Halbert                      William J. Novak                      John P. Greeley

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Date \_\_\_\_\_ Inventor Thomas R. Halbert (LS) Witness \_\_\_\_\_

Date \_\_\_\_\_ Inventor William J. Novak (LS) Witness \_\_\_\_\_

Date April 19, 2012 Inventor John P. Greeley (LS) Witness [Signature]

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