

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>Timothy D. Shaffer</td> <td>05/18/2012</td> </tr> <tr> <td>Man Kit Ng</td> <td>05/21/2012</td> </tr> <tr> <td>David T. Ferrughelli</td> <td>05/21/2012</td> </tr> <tr> <td>George Skic</td> <td>05/21/2012</td> </tr> <tr> <td>Randall D. Partridge</td> <td>05/21/2012</td> </tr> </tbody> </table>		Name	Execution Date	Timothy D. Shaffer	05/18/2012	Man Kit Ng	05/21/2012	David T. Ferrughelli	05/21/2012	George Skic	05/21/2012	Randall D. Partridge	05/21/2012
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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>13446488</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13446488								
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Application Number:	13446488												
CORRESPONDENCE DATA													
Fax Number:	9087303649												
Phone:	908-730-3605												
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<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i>													
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												
ATTORNEY DOCKET NUMBER:	2011EM006-US2												
NAME OF SUBMITTER:	David M. Weisberg												
Total Attachments: 1 source=2011EM006-US2-ASSIGNMENT#page1.tif													

CH \$40.00 13446488

ASSIGNMENT
INVENTOR or INVENTORS:

Timothy D. Shaffer
George Skic

Man Kit Ng
Randall D. Partridge

David T. Ferrughelli

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

ETHANOL STABLE POLYETHER EPOXY BASED MEMBRANE FOR AROMATICS SEPARATION

said application having been executed on the _____ day(s) of _____, 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 May 18, 2012 Inventor Timothy D. Shaffer (LS) Witness [Signature]

Date May 21, 2012 Inventor Man Kit Ng (LS) Witness [Signature]

Date May 21, 2012 Inventor David T. Ferrughelli (LS) Witness [Signature]

Date May 21, 2012 Inventor George Skic (LS) Witness [Signature]

Date May 21, 2012 Inventor Randall D. Partridge (LS) Witness [Signature]

Date _____ Inventor _____ (LS) Witness _____

Date _____ Inventor _____ (LS) Witness _____