

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>Srinivasan Rajagopalan</td> <td>01/11/2013</td> </tr> <tr> <td>Tabassumul Haque</td> <td>01/10/2013</td> </tr> <tr> <td>M. Deniz Ertas</td> <td>01/11/2013</td> </tr> <tr> <td>Hyun Woo Jin</td> <td>02/22/2013</td> </tr> <tr> <td>Bo Zhao</td> <td>01/03/2013</td> </tr> <tr> <td>Adnan Ozekcin</td> <td>01/08/2013</td> </tr> </tbody> </table>		Name	Execution Date	Srinivasan Rajagopalan	01/11/2013	Tabassumul Haque	01/10/2013	M. Deniz Ertas	01/11/2013	Hyun Woo Jin	02/22/2013	Bo Zhao	01/03/2013	Adnan Ozekcin	01/08/2013
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RECEIVING PARTY DATA															
<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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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>13724403</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13724403										
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CORRESPONDENCE DATA															
Fax Number: 9087303649 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i> Phone: 908-730-3202 Email: jocelyn.k.justice@exxonmobil.com 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:	2012EM450														

CH \$40.00 13724403

NAME OF SUBMITTER:

Robert A. Migliorini

Total Attachments: 2

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ASSIGNMENT
INVENTOR or INVENTORS:

SRINIVASAN RAJAGOPALAN TABASSUMUL HAQUE M. DENIZ ERTAS

ADNAN OZEK CIN HYUN WOO JIN BO ZHAO

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

**LOW FRICTION COATINGS WITH IMPROVED ABRASION AND WEAR PROPERTIES AND
METHODS OF MAKING**

3rd, 10th & 11th January

said application having been executed on the 22nd day(s) of February 2013, and all rights of priority created by said application under provisions of international conventions or treaties.

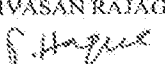
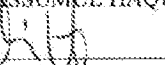
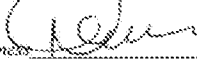
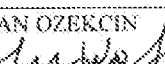
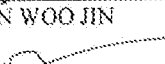
2) UNDERSIGNED agree(s) upon the request of ASSIGNEE to execute any and all applications for and documents relating to obtaining patents and the prosecution thereof for said invention or improvement, and any continuations of such applications or substitutes therefor or registrations thereof, and any 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 1/11/13	Inventor  (LS) SRINIVASAN RAJAGOPALAN	Witness 
Date Jan 10, 2013	Inventor  (LS) TABASSUMUL HAQUE	Witness 
Date 1/11/13	Inventor  (LS) M. DENIZ ERTAS	Witness 
Date	Inventor _____ (LS) ADNAN OZEK CIN	Witness _____
Date 2/22/13	Inventor  (LS) HYUN WOO JIN	Witness 
Date 1/3/13	Inventor  (LS) BO ZHAO	Witness 
Date	Inventor _____ (LS)	Witness _____

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INVENTOR or INVENTORS:

SRINIVASAN RAJAGOPALAN TABASSUMUL HAQUE M. DENIZ ERTAS
ADNAN OZEK CIN HYUN WOO JIN BO ZHAO

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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

LOW FRICTION COATINGS WITH IMPROVED ABRASION AND WEAR PROPERTIES AND METHODS OF MAKING

said application having been executed on the 8th day(s) of January 2013, 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.

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Date _____ Inventor SRINIVASAN RAJAGOPALAN (LS) Witness _____

Date _____ Inventor TABASSUMUL HAQUE (LS) Witness _____

Date _____ Inventor M. DENIZ ERTAS (LS) Witness _____

Date 1/8/2013 Inventor Adnan Ozekcin (LS) Witness [Signature]

Date _____ Inventor HYUN WOO JIN (LS) Witness _____

Date _____ Inventor BO ZHAO (LS) Witness _____

Date _____ Inventor _____ (LS) Witness _____