

PATENT ASSIGNMENT

Electronic Version v1.1

Stylesheet Version v1.1

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>Shyh-Yuan H. HWANG</td> <td>02/25/2011</td> </tr> <tr> <td>Ronald BIRKHOFF</td> <td>03/07/2011</td> </tr> <tr> <td>Richard F. GUARINO</td> <td>02/23/2011</td> </tr> <tr> <td>J. Erik MOY</td> <td>03/02/2011</td> </tr> <tr> <td>Geeta PHERWANI</td> <td>02/22/2011</td> </tr> </tbody> </table>		Name	Execution Date	Shyh-Yuan H. HWANG	02/25/2011	Ronald BIRKHOFF	03/07/2011	Richard F. GUARINO	02/23/2011	J. Erik MOY	03/02/2011	Geeta PHERWANI	02/22/2011
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RECEIVING PARTY DATA													
Name:	BADGER LICENSING LLC												
Street Address:	One Financial Center												
City:	Boston												
State/Country:	MASSACHUSETTS												
Postal Code:	02111												
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>13982956</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13982956								
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CORRESPONDENCE DATA													
Fax Number:	7038482981												
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>													
Email:	pwroberts@rmsclaw.com, ttyler@rmsclaw.com												
Correspondent Name:	Roberts Mlotkowski Safran & Cole, P.C.												
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Address Line 2:	Suite 500												
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ATTORNEY DOCKET NUMBER:	15775US												
NAME OF SUBMITTER:	Peter W. Roberts												
Signature:	/Peter W. Roberts/												

CH \$40.00 13982956

Date:

09/25/2013

Total Attachments: 3

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Docket No. 2011C002 [15775]

ASSIGNMENT

WHEREAS, I (We), the undersigned,

HWANG, Shyh-Yuan H., a citizen of USA, residing at 23 Evelyn Road, Needham, MA 02494, USA
BIRKHOFF, Ronald, a citizen of USA, residing at 1002 Herkimer Street, Houston, TX 77008, USA
GUARINO, Richard F. a citizen of USA, residing at 7 Balsam Street, Fairhaven, MA 02719, USA
MOY, J. Erik, a citizen of USA, residing at 10 Brookmeadow Lane, South Grafton, MA 01560, USA
PHERWANI, Geeta, a citizen of USA, residing at 16 Whites Avenue, Apt. #27, Watertown, MA 02472, USA

(hereinafter referred to as the “Assignor(s)”),
 have made an invention(s) for

**PROCESS FOR REDUCING THE BENZENE CONTENT OF GASOLINE
 BY ALKYLATING BENZENE USING A LOWER OLEFIN IN THE
 PRESENCE OF A PARAFFINIC DILUENT**

for which an international application No. PCT/US2011/023904 was filed on February 7, 2011
 and an application No. 13/982,956 for United States Letters Patent was deposited on July 31, 2013

WHEREAS,

BADGER LICENSING LLC, a Delaware Corporation, having its principal office at One Main Street, Cambridge, MA 02142, U.S.A. (the “Assignee”) is desirous of acquiring the entire right, title and interest in and to said invention(s), the Application(s), and in and to any and all improvements and/or modifications to the aforesaid invention(s), and the Application(s), and in and to any and all patent applications and/or Letters Patent of the United States or any other country related to the invention(s), the Application(s), and/or related to any and all improvements and/or modifications to the aforesaid invention(s) and Application(s), including but not limited, to provisional applications, conversions to utility applications, continuations, continuations-in-part, continuing prosecution applications (CPAs), requests for continuing examination (RCEs), reissues, re-examinations, extensions, substitutes, renewals and divisions which may be filed or granted therefor, and all rights to claim priority in whole or in part on the basis of the Application(s) any and all patent applications related to the invention(s);

NOW THEREFORE, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, I (We), the Assignor(s) agree to sell, assign, transfer and set over and do hereby sell, assign, transfer and set over unto said Assignee, its legal representatives, successors and assigns, the entire right, title and interest, in and to said invention(s), the Application(s) and in and to any and all improvements and/or modifications to the aforesaid invention(s) and Application(s), and in and to any and all patent applications and/or Letters Patent(s) of the United States or any other country related to said invention(s) and Application(s), and/or related to any and all improvements and/or modifications to the aforesaid invention(s) and Application(s), including but not limited to provisional applications, conversions to utility applications, continuations, continuations-in-part, continuing prosecution applications (CPAs), requests for continuing examination (RCEs), reissues, re-examinations, extensions, substitutes, renewals and divisions which may be filed or granted therefor, and all

rights to claim priority in whole or in part on the basis of the Application(s) and on the basis of any and all patent applications related to the invention, as fully and completely as the same would have been held by us had this assignment and sale not been made. (All of the foregoing patent applications and/or Letters Patent(s) related to the invention(s) and Application(s) and/or related to any and all improvements and/or modifications to the aforesaid invention(s) and Application are hereinafter referred to as "Other Related Patent Applications").

I (We), the Assignor(s), hereby covenant for me and my legal representatives, and agree with said Assignee, its successors and assigns, that I (We) have the full right to convey the entire interest herein conveyed and that I (We) have granted no right or license to make, use, sell or offer to sell said invention(s), Application(s), any other applications or properties identified herein, including Other Related Patent Applications, to anyone except said Assignee, that prior to the execution of this deed, our right, title and interest in said invention(s), Application(s), or any other applications or properties identified herein, including Other Related Patent Applications, had not been otherwise encumbered, and that we have not and will not execute any instrument in conflict with this Assignment.

This Assignment covers all countries of the world and the Assignee is hereby entitled to file applications in any country at its discretion and to abstain from seeking patent protection in any and all countries, if it so desires.

This Assignment also includes our right to claim priority under the Paris Convention or any other multilateral or bilateral treaties.

All of the said entire right, titles and interests shall vest irrevocably in said Assignee.

I (We), the Assignor(s), hereby covenant and agree, on my own behalf and on behalf of my representatives, successors and assigns, to execute any additional assignments and other documents required in connection with the prosecution of the Application(s) or Other Related Patent Applications as well as to perform any additional acts necessary to enable the Assignee or its successors, legal representatives and assigns, to enjoy the full rights of this Assignment, including applying for a Letters Patent(s) for the invention in the United States of America or in any other country of the world, and assigning the Application or any Other Related Patent Applications and any Letters Patent or patents issuing thereon to the Assignee or its successors, legal representatives and assigns.

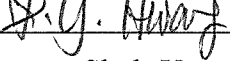
I (We), the Assignor(s), hereby agree on my own behalf and on behalf of my successors and assigns, without further compensation, to promptly at any time, upon the request of the Assignee, its successors and assigns, fully cooperate with the Assignee with respect to all matters regarding this Assignment in the United States of America or any other country, including without limitation, communicate to the Assignee or its representatives any facts known to Assignors respecting the invention and the Application, to execute any Other Related Patent Applications for any and all countries of the world, sign all lawful documents and make all rightful oaths and declarations relating to the invention and the Application, execute and deliver any and all papers that may be necessary or desirable to perfect the title to the invention and the Application, and to any Other Related Patent Applications for any and all countries of the world, in the Assignee, its successors, legal representatives or assigns, and to testify in any judicial or administrative proceeding and generally do everything possible to aid the Assignee to obtain,

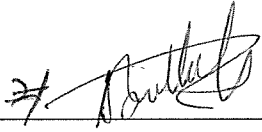
maintain and enforce such Letters Patent or patents, identified in this assignment, in the United States of America or any country of the world when requested so to do by the Assignee.

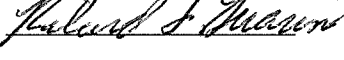
I (We), the Assignor(s), hereby authorize and request our agents, **Roberts Mlotkowski Safran & Cole P.C.**, 7918 Jones Branch Drive, Suite 500, McLean, Virginia 22102, or an authorized **BADGER LICENSING LLC** employee to insert hereon any identification necessary or desirable for recordation of this document, including the filing date and application number of said application when known.

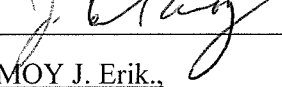
And I (We), the Assignor(s), request the Director of the United States Patent and Trademark Office and/or appropriate officials of any country to issue any and all Letters Patents or patents which may be granted upon said Application(s), said United States application(s) or upon any Other Related Patent Applications filed in any country of the world, or upon said improvements and/or modifications or any parts thereof, which are referred to herein, to **BADGER LICENSING LLC**, its legal representatives, successors or assigns, as the sole owner of the entire right, title and interest in and to said Letters Patents or patents and the invention covered thereby.


Inventor(s):

(1) Signature 
Name Hwang, Shyh-Yuan Henry
Signed on 2/25/2011

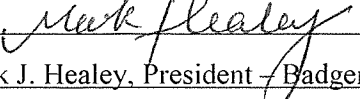
(2) Signature 
Name BIRKHOFF, Ronald.
Signed on 3/7/2011

(3) Signature 
Name GUARINO, Richard F.
Signed on Feb 23, 2011

(4) Signature 
Name MOY J. Erik.,
Signed on 02 Mar 11

(5) Signature 
Name PHERWANI, Geeta
Signed on 02/22/2011

ASSIGNEE (S) : **BADGER LICENSING LLC**

Signature 
Name Mark J. Healey, President - Badger Licensing LLC
Date 15 MARCH, 2011