

## 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>Hyun-Tae HWANG</td> <td>09/02/2010</td> </tr> <tr> <td>Ahmad AL-KUKHUN</td> <td>09/02/2010</td> </tr> </tbody> </table> |                                   | Name          | Execution Date | Hyun-Tae HWANG      | 09/02/2010 | Ahmad AL-KUKHUN | 09/02/2010 |
| Name  | Execution Date                    |               |                |                     |            |                 |            |
| Hyun-Tae HWANG  | 09/02/2010                        |               |                |                     |            |                 |            |
| Ahmad AL-KUKHUN   | 09/02/2010                        |               |                |                     |            |                 |            |
| RECEIVING PARTY DATA  |                                   |               |                |                     |            |                 |            |
| Name:   | Purdue Research Foundation        |               |                |                     |            |                 |            |
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| City:   | West Lafayette                    |               |                |                     |            |                 |            |
| State/Country:  | INDIANA                           |               |                |                     |            |                 |            |
| Postal Code:  | 47096                             |               |                |                     |            |                 |            |
| 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>12544832</td> </tr> </tbody> </table>   |                                   | Property Type | Number         | Application Number: | 12544832   |                 |            |
| Property Type   | Number                            |               |                |                     |            |                 |            |
| Application Number:   | 12544832                          |               |                |                     |            |                 |            |
| CORRESPONDENCE DATA   |                                   |               |                |                     |            |                 |            |
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| Email:  | jsnead@brinkshofer.com            |               |                |                     |            |                 |            |
| <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:   | Brinks Hofer Gilson & Lione       |               |                |                     |            |                 |            |
| Address Line 1:   | 4721 Emperor Boulevard            |               |                |                     |            |                 |            |
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| ATTORNEY DOCKET NUMBER:   | 12264-403                         |               |                |                     |            |                 |            |
| NAME OF SUBMITTER:  | Daniel A. Rube, Reg. No. 53,536   |               |                |                     |            |                 |            |
| Total Attachments: 3<br>source=assignment#page1.tif<br>source=assignment#page2.tif<br>source=assignment#page3.tif   |                                   |               |                |                     |            |                 |            |

CH \$40.00 12544832

**ASSIGNMENT**

WHEREAS, HYUN-TAE HWANG and AHMAD AL-KUKHUN hereinafter called the "Assignors", have made the invention described in the United States patent application entitled METHOD FOR RELEASING HYDROGEN FROM AMMONIA BORANE, for a full description of which reference is here made to an application for Letters Patent of the United States filed on August 20, 2009, and assigned Application Serial No. 12/544,832;

WHEREAS, Purdue Research Foundation, a not-for-profit organization existing under the laws of the State of Indiana, having a place of business at 1281 Win Hentschel Blvd, West Lafayette, Indiana, 47906, hereinafter called the "Assignee", desires to acquire the entire right, title and interest in and to the invention and the patent application identified above, and all patents which may be obtained for said invention, as set forth below;

NOW, THEREFORE, in consideration of the sum of One Dollar (\$1.00), and other valuable and legally sufficient consideration, the receipt of which by the Assignors from the Assignee is hereby acknowledged, the Assignors have sold, assigned and transferred, and by these presents do sell, assign and transfer to the Assignee, the entire right, title and interest for the United States in and to the invention and the patent application identified above, and any patents that may issue for said invention in the United States; together with the entire right, title and interest in and to said invention and all patent applications and patents therefor in all countries foreign to the United States, including the full right to claim for any such application all benefits and priority rights under any applicable convention; together with the entire right, title and interest in and to all continuations, divisions, renewals and extensions of any of the patent applications and patents defined above; together with the right to recover all damages, including, but not limited to, a reasonable royalty, by reason of past, present, or future infringement or any other violation of patent or patent application rights; to have and to hold for the sole and exclusive use and benefit of the Assignee, its successors and assigns, to the full end of the term or terms for all such patents.

The Assignors hereby covenant and agree, for both the Assignors and the Assignors' legal representatives, that the Assignors will assist the Assignee in the prosecution of

the patent application identified above; in the making and prosecution of any other patent applications that the Assignee may elect to make covering the invention identified above; in vesting in the Assignee like exclusive title in and to all such other patent applications and patents; and in the prosecution of any interference which may arise involving said invention, or any such patent application or patent; and that the Assignors will execute and deliver to the Assignee any and all additional papers which may be requested by the Assignee to carry out the terms of this Assignment.

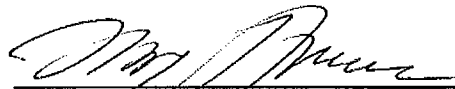
Assignor hereby grants the attorney of record the power to insert on this Assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for the recordation of this document.

The Commissioner of Patents and Trademarks is hereby authorized and requested to issue patents to the Assignee in accordance with the terms of this Assignment.

IN TESTIMONY WHEREOF, the Assignors have executed this agreement.

DATED:

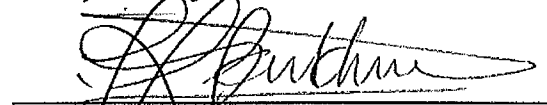
09/02/2010



HYUN-TAE HWANG

DATED:

09/02/2010



AHMAD AL-KUKHUN

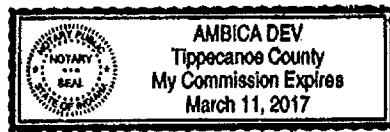
STATE OF Indiana )  
 ) ss. AD  
COUNTY OF Tippecanoe ) Ambica Dev

I, ~~Ambica Dev~~, a Notary Public in and for the County and State aforesaid, do hereby certify that HYUN-TAE HWANG, personally known to me to be the same person whose name is subscribed to the foregoing instrument, appeared before me this day in person and acknowledged that (s)he signed, sealed and delivered the said instrument as his/her free and voluntary act for the uses and purposes therein set forth.

IN WITNESS WHEREOF, I have hereunto set my hand and Notarial Seal, this day of September 2, ~~2009~~ 2010

*Ambica Dev*  
\_\_\_\_\_  
Notary Public

My Commission Expires: March 11, 2017



STATE OF Indiana )  
 ) ss.  
COUNTY OF Tippecanoe )

I, Kelly Jones, a Notary Public in and for the County and State aforesaid, do hereby certify that AHMAD AL-KUKHUN, personally known to me to be the same person whose name is subscribed to the foregoing instrument, appeared before me this day in person and acknowledged that (s)he signed, sealed and delivered the said instrument as his/her free and voluntary act for the uses and purposes therein set forth.

IN WITNESS WHEREOF, I have hereunto set my hand and Notarial Seal, this day of Sept 2, ~~2009~~ 2010

*Kelly Jones*  
\_\_\_\_\_  
Notary Public

My Commission Expires:

