

PATENT ASSIGNMENT

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| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | EXECUTIVE ORDER 9424, CONFIRMATORY LICENSE |
| CONVEYING PARTY DATA | |
| Name | Execution Date |
| SANDIA CORPORATION | 08/20/2012 |
| RECEIVING PARTY DATA | |
| Name: | U.S. DEPARTMENT OF ENERGY |
| Street Address: | 1000 INDEPENDNCE AVE., SW |
| City: | WASHINGTON |
| State/Country: | DISTRICT OF COLUMBIA |
| Postal Code: | 20585 |
| PROPERTY NUMBERS Total: 1 | |
| Property Type | Number |
| Application Number: | 13456135 |
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| Total Attachments: 1 source=S-121789 Confirmatory License#page1.tif | |

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Application for: **Methods and Materials for Deconstruction of Biomass for Biofuels Production**

Inventor(s): **Michael S. Bartsch, Mark R. Claudnic, Hanyoup Kim, Kamlesh D. Patel, Ronald F. Renzi and James L. Van De Vreugde**

Serial Number: **13/456,135**

Filing Date: **April 25, 2012**

Contract No.: **DE-AC04-94AL85000**

Contractor: **Sandia Corporation**

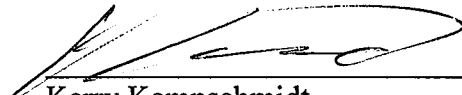
The invention identified above is a "Subject Invention" under the above-numbered contract. A copy of the provisions of the above-numbered contract certified on January 9, 1996, governing patent rights in the Subject Invention at the time the invention was made, has been submitted to the U. S. Department of Energy.

The contractor hereby confirms that under the provisions of the above-numbered contract governing patent rights, it has granted to the Government a nonexclusive, nontransferable, irrevocable, paid up license to practice or have practiced for or on behalf of the United States the Subject Invention throughout the world. This license applies to the invention in the above-identified patent application and any and all divisions or continuations thereof and any resulting patent or reissue patent which may be granted thereon.

It is understood and agreed that this document does not preclude the Government from asserting rights under the provisions of said contract or any other agreement between the Government and the Contractor, or any other rights of the Government with respect to the above-identified invention.

The Contractor hereby grants the Government an irrevocable power to inspect and make copies of the above-identified application.

Signed this 25 day of August, 2012.


 Kerry Kampschmidt
 Chief Intellectual Property Counsel
 Legal Technology Transfer Center, 11500

If the invention was made under a subcontract, please identify the Prime Contractor:

_____, Prime Contract No. _____