

PATENT ASSIGNMENT

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NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
Allen A. Aradi	02/09/2010
Joseph W. Roos	02/09/2010
Tze Chi Jao	02/09/2009
RECEIVING PARTY DATA	
Name:	Afton Chemical Corporation
Street Address:	500 Spring Street
City:	Richmond
State/Country:	VIRGINIA
Postal Code:	23219
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	12685791
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NAME OF SUBMITTER:	Alexander D. Raring
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OP \$40.00 12685791

ASSIGNMENT

We, **Allen A. Aradi**, 11808 Olde Covington Way, Glen Allen, Virginia 23059, a citizen of the United States of America; **Joseph H. Roos**, 10261 Berkeley Manor Drive, Mechanicsville, Virginia 23116, a citizen of the United States of America; and **Tze-Chi Jao**, 5619 Olde Hartley Way, Glen Allen, Virginia 23060, a citizen of the United States of America; have invented and own a certain invention entitled:

**NANOPARTICLE CATALYST COMPOUNDS AND/OR
VOLATILE ORGANOMETALLIC COMPOUNDS AND
METHOD OF USING THE SAME FOR BIOMASS GASIFICATION**

for which invention we have executed an application for a U.S. patent, which is filed on January 12, 2010 and assigned U.S. Serial No. 12/685,791, and

WHEREAS, AFTON CHEMICAL CORPORATION, of 500 Spring Street, Richmond, Virginia 23219, (hereinafter referred to as Assignee), is desirous of acquiring the entire domestic and foreign right, title, and interest in and under the invention described in the patent application.

NOW, THEREFORE, for good and valuable considerations, the receipt and sufficiency of which are hereby acknowledged, we assign and transfer to the Assignee and the Assignee's legal representatives, successors, and assigns the full and exclusive rights in and to the invention in the U.S. and every foreign country and the entire right, title, and interest in and to the patent application and other such applications (e.g., provisional applications, non-provisional applications, continuations, continuations-in-part, divisionals, reissues, reexaminations, National phase applications, including petty patent applications, and utility model applications) that may be filed in the United States and every foreign country on the invention, and the patents, extensions, or derivations thereof, both foreign and domestic, that may issue thereon, and we do hereby authorize and request the Commissioner of Patents to issue U.S. patents to the above-mentioned Assignee agreeably with the terms of this assignment document.


UPON SAID CONSIDERATION, we convey to the Assignee the right to make application in its own behalf for protection of the invention in the U.S. and countries foreign to the U.S. and to claim under the Patent Cooperation Treaty, the International Convention and/or other international arrangement for any such application the date of the U.S. application (or any other application on the invention) to gain priority with respect to other applications.

WE DO HEREBY COVENANT and agree with the Assignee that we will not execute any writing or do any act whatsoever conflicting with the terms of this assignment document set forth herein, and that we will at any time upon request, without further or additional consideration, but at the expense of the Assignee, execute such additional assignments and other writings and do such additional acts as the Assignee may deem necessary or desirable to perfect the Assignee's enjoyment of this assignment, and render all necessary assistance in making application for and obtaining original, continuation, continuation-in-part, divisional, reissued, reexamined, and National phase patents of the U.S. or of any and all foreign countries on the invention, and in enforcing any rights or chooses in action accruing as a result of such applications or patents, and by executing statements

and other affidavits, it being understood that the foregoing covenant and agreement shall bind, and inure to the benefit of, the assigns and legal representatives of all parties hereto.

Inventor 
Allen A. Aradi

2/9/2010
Date

Inventor 
Joseph W. Roos

2/9/2010
Date

Inventor 
Tze Chi Jao

2/9/2010
Date