

**PATENT ASSIGNMENT**

Electronic Version v1.1  
 Stylesheet Version v1.1

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT								
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT								
<b>CONVEYING PARTY DATA</b>									
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:70%;">Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Allen A. Aradi</td> <td>03/16/2007</td> </tr> <tr> <td>Joseph W. Roos</td> <td>03/16/2007</td> </tr> <tr> <td>Michael W. Meffert</td> <td>03/16/2007</td> </tr> </tbody> </table>		Name	Execution Date	Allen A. Aradi	03/16/2007	Joseph W. Roos	03/16/2007	Michael W. Meffert	03/16/2007
Name	Execution Date								
Allen A. Aradi	03/16/2007								
Joseph W. Roos	03/16/2007								
Michael W. Meffert	03/16/2007								
<b>RECEIVING PARTY DATA</b>									
<b>Name:</b>	Afton Chemical Corporation								
<b>Street Address:</b>	500 Spring Street								
<b>City:</b>	Richmond								
<b>State/Country:</b>	VIRGINIA								
<b>Postal Code:</b>	23219								
<b>PROPERTY NUMBERS Total: 1</b>									
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:30%;">Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>11687299</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	11687299				
Property Type	Number								
Application Number:	11687299								
<b>CORRESPONDENCE DATA</b>									
<b>Fax Number:</b>	(804)644-3643								
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>									
<b>Phone:</b>	804 344 8130								
<b>Email:</b>	jthomas@ip-counsel.net								
<b>Correspondent Name:</b>	John H. Thomas, P.C.								
<b>Address Line 1:</b>	536 Granite Avenue								
<b>Address Line 4:</b>	Richmond, VIRGINIA 23226								
<b>ATTORNEY DOCKET NUMBER:</b>	NM 7831								
<b>NAME OF SUBMITTER:</b>	John H. Thomas								
<b>Total Attachments: 3</b> source=assignment#page1.tif source=assignment#page2.tif									

OP \$40.00 11687299



**ASSIGNMENT**

We, **Allen A. Aradi**, 11808 Olde Covington Way, Glen Allen, Virginia 23059, a citizen of the United States of America; **Joseph W. Roos**, 10261 Berkeley Manor Drive, Mechanicsville, Virginia 23116, a citizen of the United States of America; and **Michael W. Meffert**, 7833 Hampton Green Drive, Chesterfield, Virginia 23832, a citizen of the United States of America; have invented and own a certain invention entitled:

**Method of Using Nanoalloy Additives  
to Reduce Plume Opacity, Slagging, Fouling,  
Corrosion, and Emissions**

for which invention we have executed an application for a U.S. patent, which is filed herewith, 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 choses 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*  
Allen A. Aradi

COMMONWEALTH OF VIRGINIA }  
CITY OF RICHMOND }

On this 16 day of March, 2007, Allen A. Aradi personally appeared before me, to me known to be the person named in and who executed the above instrument in my presence, who acknowledged that he executed the same of his own free will for the uses and purposes herein mentioned.

*Vickie L. Nestor*  
Notary Public

(Notarial Seal)

My Commission Expires 8/31/2008

Inventor *Joseph W. Roos*  
Joseph W. Roos

COMMONWEALTH OF VIRGINIA }  
CITY OF RICHMOND }

On this 16 day of March, 2007, Joseph W. Roos personally appeared before me, to me known to be the person named in and who executed the above instrument in my presence, who acknowledged that he executed the same of his own free will for the uses and purposes herein mentioned.

*Vickie L. Nestor*  
Notary Public

(Notarial Seal)

My Commission Expires 8/31/2008

Inventor Michael W. Meffert  
Michael W. Meffert

COMMONWEALTH OF VIRGINIA    }  
  }  
CITY OF RICHMOND                }

On this 16 day of March, 2007, Michael W. Meffert personally appeared before me, to me known to be the person named in and who executed the above instrument in my presence, who acknowledged that he executed the same of his own free will for the uses and purposes herein mentioned.

Vickie F. Nestor  
Notary Public

(Notarial Seal)

My Commission Expires 8/31/2008