

**PATENT ASSIGNMENT**

Electronic Version v1.1  
 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
Tze-chi Jao	08/16/2006
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:	11465160
CORRESPONDENCE DATA	
Fax Number:	(703)997-4905
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>	
Phone:	(703) 917.0000
Email:	swood@mh2law.com
Correspondent Name:	Min, Hsieh & Hack LLP
Address Line 1:	8270 Greensboro Drive
Address Line 2:	Suite 630
Address Line 4:	McLean, VIRGINIA 22102
ATTORNEY DOCKET NUMBER:	0013.0082
NAME OF SUBMITTER:	Carol L. Cole

OP \$40.00 11465160

Total Attachments: 6  
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To the Director of the U.S. Patent and Trademark Office: Mail Stop Assignment Recordation Services  
Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):  
Tze-chi Jao

2. Name and address of receiving party(ies):  
Name: Afton Chemical Corporation

Additional name(s) of conveying party(ies) attached?  Yes  No

Internal Address:

3. Nature of conveyance:  
Street Address: 500 Spring Street

Assignment  Merger  
City: Richmond

Security Agreement  Change of Name  
State: VA Zip Code: 23219

Other: [Describe]

Additional name(s) & Address(es) attached?

Execution Date: August 16, 2006

Yes  No

4. Application number(s) or patent number(s): If this document is being filed together with a new application, the execution date of the application: August 17, 2006

A. Patent Application Number(s): 11/465,160

B. Patent Number(s):

Additional numbers attached?  Yes  No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Carol L. Cole, Esq.

6. Total number of applications and registrations involved: 1

Internal Address: Min, Hsieh & Hack, LLP

Street Address: 8270 Greensboro Drive, Suite 630

City: McLean

7. Total fee (37 CFR 3.41): \$40

Enclosed (Please charge deficiency to deposit account)

Authorized to be charged to credit card through EFS

State: VA Zip: 22102

8. Deposit Account No.: 50-2961

9. Statement and signature.  
To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Reg. No. 43,555  
Carol L. Cole

Carol L. Cole  
Signature

11/2/06  
Date

Total number of pages including cover sheet, attachments and documents: 6

## ASSIGNMENT

WHEREAS, WE, Allen A. ARADI, residing at 11808 Olde Covington Way, Glen Allen, VA 23059; Carl K. ESCHE, Jr., residing at 1505 Willingham Road, Richmond, VA 23238; Katrina MCINTOSH, residing at 13301 Thornridge Lane, Midlothian, VA 23112 and Tze-chi JAO, residing at 5619 Olde Hartley Way, Glen Allen, VA 23060, have invented certain new and useful improvements in and to the subject matter of:

### NANOALLOY FUEL ADDITIVES,

described in an application for United States Letters Patent being executed simultaneously 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, in consideration of the sum of One Dollar (\$1.00) or the equivalent thereof, and other good and valuable consideration, receipt of which is hereby acknowledged, we do hereby sell, assign and transfer unto said ASSIGNEE, its successors, assigns and legal representatives, our entire right, title and interest in and throughout the United States of America (including its territories and dependencies) and all countries foreign thereto in and to said improvements, said United States application, any other United States applications, including provisional, divisional, renewal, substitute, continuation, reexamination and reissue applications, based in whole or in part on said United States application or in whole or in part on said improvements, any foreign applications, including international and regional applications, based in whole or in part on any of the aforesaid United States applications or in whole or in part on said improvements, and in and to any and all letters patent, including extensions thereof, of any country which have been or may be granted on any of the aforesaid applications or on said improvements or any parts thereof;

AND WE hereby authorize and request our agents, Min, Hsieh & Hack LLP, whose address is 8270 Greensboro Drive, Suite 630, McLean, VA 22102, 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 WE hereby agree for ourselves and our heirs, executors and administrators to execute without further consideration any further documents and instruments which may be necessary, lawful and proper in the prosecution of said above-referenced application or in the preparation or prosecution of any continuing, substitute, divisional, renewal, reexamination or reissue application or in any amendments, extensions or interference proceedings, or other applications for patents of any region or country, that may be necessary to secure to ASSIGNEE its interest and title in and to said improvements or any parts thereof, and in and to said several patents or any of them;

AND WE hereby covenant for ourselves and our legal representatives, and agree with said ASSIGNEE, its successors and assigns, that we have granted no right or license to

make, use, sell or offer to sell said improvements, to anyone except said ASSIGNEE, that prior to the execution of this deed, our right, title and interest in said improvements had not been otherwise encumbered, and that we have not and will not execute any instrument in conflict therewith;

AND WE do hereby authorize and request the Director of the United States Patent and Trademark Office to issue any and all letters patent which may be granted upon said United States applications, or upon said improvements or any parts thereof when granted, to said ASSIGNEE.

IN WITNESS WHEREOF, we have hereunto set our hands and seals.

8/16/06  
Date

*Allen A. Aradi*  
Allen A. ARADI

City of Richmond )  
County of ) ss:  
State of Virginia )

On this 17 day of August, 2006, before me a Notary Public in and for the County and State aforesaid, personally appeared Allen A. Aradi to me known and known to me to be the person of that name, who signed and sealed the foregoing instrument, and acknowledged the same to be of his free act and deed.

*Wickie Nestor*  
Notary Public

(SEAL)

My Commission Expires 8/31/2008

8/16/06  
Date

Carl K. Esche, Jr.  
Carl K. ESCHE, Jr.

City  
County of Richmond )  
State of Virginia )

ss:

On this 16<sup>th</sup> day of August, 2006, before me a Notary Public in and for the County and State aforesaid, personally appeared Carl K Esche to me known and known to me to be the person of that name, who signed and sealed the foregoing instrument, and acknowledged the same to be of his free act and deed.

Wickie F. Nestor  
Notary Public

(SEAL)

My Commission Expires 8/31/2008

8/16/06  
Date  
City  
County of Richmond  
State of Virginia

Katrina McIntosh  
Katrina MCINTOSH

)  
) ss:  
)

On this 16 day of August, 2006, before me a Notary Public in and for the County and State aforesaid, personally appeared Katrina McIntosh to me known and known to me to be the person of that name, who signed and sealed the foregoing instrument, and acknowledged the same to be of his free act and deed.

Debbie J. Nestor  
Notary Public

(SEAL)

My Commission Expires 8/31/2008

8/16/06  
Date

Tze-chi Jao  
Tze-chi JAO

City of Richmond )  
County of )  
State of Virginia ) ss:

On this 16 day of August, 2006, before me a Notary Public in and for the County and State aforesaid, personally appeared Tze-chi Jao, to me known and known to me to be the person of that name, who signed and sealed the foregoing instrument, and acknowledged the same to be of his free act and deed.

Vichie Noster  
Notary Public

(SEAL)

My Commission Expires 8/31/2008