


**RECORDATION FORM COVER SHEET
PATENTS ONLY**

 U.S. Department of Commerce
 Patent and Trademark Office
 Attorney Docket Nos. 09157.0010;
 09157.0011; 09157.0011-01000;
 09157.0014

 To the Director of the U.S. Patent and Trademark Office:
 Please record the attached original documents or copy thereof.

Mail Stop Assignment Recordation Services

1. Name of conveying party: Imerys Services S.A.S.		2. Name and address of receiving party: Name: Imerys	
Additional name(s) of conveying party(ies) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Internal Address:	
3. Nature of conveyance:		Street Address: 154 Rue de L' Universite	
<input checked="" type="checkbox"/> Assignment	<input type="checkbox"/> Merger	City: Paris	
<input type="checkbox"/> Security Agreement	<input type="checkbox"/> Change of Name	State: France	Zip Code: 75007
<input type="checkbox"/> Joint Research Agreement	<input type="checkbox"/> Government Interest Assignment	Additional name(s) & Address(es) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
<input type="checkbox"/> Executive Order 9494, Confirmatory License	<input type="checkbox"/> Other:		
Execution Date: November 11, 2008			
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:			
A. Patent Application Numbers: 11/465,602 11/469,589 11/624,057 11/846,261		B. Patent Number(s):	
Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
5. Name and address of party to whom correspondence concerning document should be mailed:		6. Total number of applications and patents involved: Three (3)	
Name: Jason E. Stach (202) 408-4000		7. Total fee (37 CFR 1.21(h) and 3.41): \$40	
Internal Address: FINNEGAN, HENDERSON, FARABOW, GARRETT & DUNNER, L.L.P.		<input type="checkbox"/> Enclosed (Please charge deficiency or credit overpayment to deposit account 06-0916)	
Street Address: 901 New York Avenue, N.W.		<input checked="" type="checkbox"/> Authorized to be charged to deposit account	
City: Washington, D.C.			
State: Zip: 20001-4413		8. Deposit Account No.: 06-0916	
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.			
Signed: 		12/18/08	
Jason E. Stach, Reg. No. 54,464		Date	
Total number of pages including cover sheet, attachments and documents: 3			

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PATENT
REEL: 022005 FRAME: 0686

SOLE/JOINT INVENTION
 (Worldwide Rights)
 Attorney Docket Nos. 09157.0010
 09157.0011
 09157.0011-01000
 09157.0014-00000

ASSIGNMENT

WHEREAS IMERYS SERVICES S.A.S., a Simplified Joint Stock Company of France whose post office address is 154 Rue de L' Universite, 75007 Paris, France (hereinafter referred to as Imerys Services S.A.S.), has assignment rights, title and interest in and to the following inventions:

ELECTROFUSED PROPPANT, METHOD OF MANUFACTURE, AND METHOD OF USE
 FILED: AUGUST 18, 2006 - APPLICATION SERIAL NO. 11/465,602;

**ROD-SHAPED PROPPANT AND ANTI-FLOWBACK ADDITIVE, METHOD OF MANUFACTURE,
 AND METHOD OF USE**
 FILED: SEPTEMBER 1, 2006 - APPLICATION SERIAL NO. 11/469,589;

METHOD OF MANUFACTURING AND USING ROD-SHAPED PROPPANT AND ANTI-FLOWBACK ADDITIVES
 FILED: JANUARY 17, 2007 - APPLICATION SERIAL NO. 11/624,057; AND

**PROPPANTS AND ANTI-FLOWBACK ADDITIVES MADE FROM SILLIMANITE MINERALS,
 METHODS OF MANUFACTURE, AND METHODS OF USE**
 FILED: AUGUST 28, 2007 - APPLICATION SERIAL NO. 11/848,261

WHEREAS, Imerys, whose post office address is 154 Rue de L' Universite, 75007 Paris, France (hereinafter referred to as Assignee), is desirous of securing the entire right, title, and interest in and to the inventions in all countries throughout the world, and in and to the applications for United States Letters Patent on the inventions and the Letters Patents to be issued upon the applications;

NOW THEREFORE, be it known that, for good and valuable consideration of the sum of One Dollar (\$1.00) in hand paid and other good and valuable consideration the receipt of which from Assignee is hereby acknowledged, Imerys Services S.A.S. as Assignor, has sold, assigned, transferred, and set over, and does hereby sell, assign, transfer, and set over unto the Assignee, its lawful successors and assigns, Imerys Services S.A.S.'s entire right, title, and interest in and to the inventions, and any improvements in the inventions, the applications, and all divisions, and continuations thereof, and all Letters Patents of the United States which may be granted thereon, and all reissues thereof, as well as all rights to claim priority on the basis of this application, and all applications for Letters Patents which may hereafter be filed for the inventions in any foreign country and all Letters Patents which may be granted on the inventions in any foreign country, and all extensions, renewals, and reissues thereof; and Imerys Services S.A.S. hereby authorize and request the Commissioner of Patents and Trademarks of the United States and any official of any foreign country whose duty it is to issue patents on applications as described above, to issue all Letters Patents for the inventions to Assignee, its successors and assigns, in accordance with the terms of this Assignment;

AND, Imerys Services S.A.S. HEREBY covenants that it has the full right to convey the interest assigned by this Assignment, and Imerys Services S.A.S. has not executed and will not execute any agreement in conflict with this Assignment;

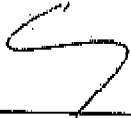
AND, Imerys Services S.A.S. HEREBY further covenants and agrees that it will, without further consideration, communicate with Assignee, its successors and assigns, any facts known to Imerys Services S.A.S. respecting the inventions, and testify in any legal proceeding, sign all lawful papers when called upon to do so, execute and deliver any and all papers that may be necessary or desirable to perfect the title to the inventions in said Assignee, its successors or assigns, execute all divisional, continuation, and reissue

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applications, make all rightful oaths and generally do everything possible to aid Assignee, its successors and assigns, to obtain and enforce proper patent protection for this invention in the United States and any foreign country, it being understood that any expense incident to the execution of such papers shall be borne by the Assignee, its successors and assigns.


IN TESTIMONY WHEREOF, Imerys Services S.A.S. has caused its corporate seal to be affixed and this Assignment to be executed by its duly authorized representative this 11th day of November 2008.

IMERYS SERVICES S.A.S.



Thierry Salmona
Title: President

Witnessed by:



Sabine Serbelloni