

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT3921708

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
QINGCHUN HU	04/12/2009
GEORGE A. NYAMEKYE	02/16/2009
ROBERT H. REES	01/28/2009
NIELS S. MASTRUP	02/25/2009
LARISA TIHOMIROV	02/02/2009
WALTER N. PAVLAKOVICH	03/02/2009
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	WORLD MINERALS INC.
<b>Street Address:</b>	130 CASTILIAN DRIVE
<b>City:</b>	SANTA BARBARA
<b>State/Country:</b>	CALIFORNIA
<b>Postal Code:</b>	93117
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
Application Number:	15182297
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(202)408-4400
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i>	
<b>Phone:</b>	202.216.5492
<b>Email:</b>	gonnella@finnegan.com
<b>Correspondent Name:</b>	IMERYS/FINNEGAN
<b>Address Line 1:</b>	901 NEW YORK AVE., NW
<b>Address Line 4:</b>	WASHINGTON, D.C. 20001
<b>ATTORNEY DOCKET NUMBER:</b>	10000.0024-02000
<b>NAME OF SUBMITTER:</b>	AMY-MARIE GONNELLA
<b>SIGNATURE:</b>	/Amy-Marie Gonnella/
<b>DATE SIGNED:</b>	06/16/2016
<b>Total Attachments: 21</b>	

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## **ASSIGNMENT**

WHEREAS We, the below named inventors (hereinafter referred to as Assignors), have made an invention entitled:

### **COMPOSITION FOR FILTERING AND REMOVING PARTICLES AND/OR CONSTITUENTS FROM A FLUID**

for which We executed an application for United States Letters Patent on January 14, 2009 (Application No. 12/373,753); and

WHEREAS, World Minerals Inc., a corporation of Delaware whose post office address is 130 Castilian Drive, Santa Barbara, California 93117 (hereinafter referred to as Assignee), is desirous of securing the entire right, title, and interest in and to this invention in all countries throughout the world, and in and to any PCT application and any provisional, non-provisional, and/or national stage application for United States Letters Patent on this invention and any Letters Patent to be issued upon any related application worldwide;

NOW THEREFORE, be it known that, for good and valuable consideration, the receipt of which from Assignee is hereby acknowledged, We, as Assignors, have sold, assigned, transferred, and set over, and do hereby sell, assign, transfer, and set over unto the Assignee, its lawful successors and assigns, our entire right, title, and interest in and to this invention, this application, any international PCT or U.S. provisional, non-provisional, or national stage applications (including but not limited to U.S. Provisional Application Nos. 60/830,781 and 60/945,954 and PCT International Application No. PCT/US2007/073439), and all divisions and continuations thereof, and all Letters Patent of the United States which may be granted thereon, and all reissues thereof, and all rights to claim priority on the basis of any PCT or U.S. provisional application, as well as all rights to claim priority on any related application, and all applications for Letters Patent which may hereafter be filed for this invention in any foreign country and all Letters Patent which may be granted on this invention in any foreign country, and all extensions, renewals, and reissues thereof; and We hereby authorize and request the Director of the United States Patent and Trademark Office, and any official of any foreign country whose duty it is to issue patents on applications as described above, to issue all Letters Patent for this invention to Assignee, its successors and assigns, in accordance with the terms of this Assignment;

AND, We HEREBY covenant that We have the full right to convey the interest assigned by this Assignment, and We have not executed and will not execute any agreement in conflict with this Assignment;

AND, We HEREBY further covenant and agree that We will, without further consideration, communicate with Assignee, its successors and assigns, any facts known to us respecting this invention, 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 this invention in said Assignee, its

successors or assigns, execute all divisional, continuation, and reissue applications, make all rightful oaths, and generally do everything possible to aid Assignee, its successors and assigns, to obtain, enforce, and defend 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, We have hereunto set our hands.

County of \_\_\_\_\_ )  
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 State of \_\_\_\_\_ )  
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 )  
 )  
 ss. Name: Qingchun Hu  
 Address: 816 Colbert Drive  
Lompoc, California 93438  
 By: *Qingchun Hu*  
 Date: 04-12-2009

County of \_\_\_\_\_ )  
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 State of \_\_\_\_\_ )  
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 )  
 ss. Name: George A. Nyamekye  
 Address: 2045 Mariah Drive  
Santa Maria, California 93454  
 By: \_\_\_\_\_  
 Date: \_\_\_\_\_

County of \_\_\_\_\_ )  
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 State of \_\_\_\_\_ )  
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 ss. Name: Robert H. Rees  
 Address: 4367 Manchester Court  
Santa Maria, California 93455  
 By: \_\_\_\_\_  
 Date: \_\_\_\_\_

County of \_\_\_\_\_ )  
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 State of \_\_\_\_\_ )  
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 ss. Name: Niels S. Mastrup  
 Address: 4344 Carolyn Way  
Santa Maria, California 93455  
 By: \_\_\_\_\_  
 Date: \_\_\_\_\_

County of \_\_\_\_\_ )

State of \_\_\_\_\_ )

ss.

Name: Larisa Tihomirov

Address: 815 East Airport Avenue  
Lompoc, California 93436

By: \_\_\_\_\_

Date: \_\_\_\_\_

County of \_\_\_\_\_ )

State of \_\_\_\_\_ )

ss.

Name: Walter N. Pavlakovich

Address: 1155 Clubhouse Drive  
Santa Maria, California 93455

By: \_\_\_\_\_

Date: \_\_\_\_\_

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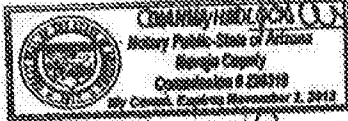
AND, We HEREBY further covenant and agree that We will, without further consideration, communicate with Assignee, its successors and assigns, any facts known to us respecting this invention, and testify in any legal proceeding, sign all lawful papers when called upon to do so, execute and deliver any and all papers that may be necessary or desirable to perfect the title to this invention in said Assignee, its

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IN TESTIMONY WHEREOF, We have hereunto set our hands.

County of \_\_\_\_\_  
 State of \_\_\_\_\_

ss. Name: Qingchun Hu  
 Address: 616 Colbert Drive  
Lompoc, California 93436  
 By: \_\_\_\_\_  
 Date: \_\_\_\_\_



State of Arizona

ss. Name: George A. Nysmekye  
 Address: 2232 W. Heritage Drive  
Snowflake, Arizona 85937  
 By: [Signature]  
 Date: 2/16/2009

County of \_\_\_\_\_  
 State of \_\_\_\_\_

ss. Name: Robert H. Rees  
 Address: 4367 Manchester Court  
Santa Maria, California 93455  
 By: \_\_\_\_\_  
 Date: \_\_\_\_\_

County of \_\_\_\_\_  
 State of \_\_\_\_\_

ss. Name: Niels S. Mastrop  
 Address: 4344 Carolyn Way  
Santa Maria, California 93455  
 By: \_\_\_\_\_  
 Date: \_\_\_\_\_

County of \_\_\_\_\_ )

State of \_\_\_\_\_ )

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Name: Larisa Tihomirov

Address: 815 East Airport Avenue  
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By: \_\_\_\_\_

Date: \_\_\_\_\_

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County of Santa Barbara )  
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 State of California )  
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ss. Name: Robert H. Rees  
 Address: 4367 Manchester Court  
Santa Maria, California 93455  
 By:   
 Date: 1/28/09

County of \_\_\_\_\_ )  
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 State of \_\_\_\_\_ )  
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ss. Name: Niels S. Mastrup  
 Address: 4344 Carolyn Way  
Santa Maria, California 93455  
 By: \_\_\_\_\_  
 Date: \_\_\_\_\_

## ACKNOWLEDGMENT

State of California

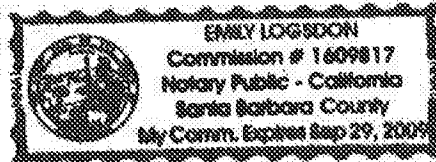
County of Santa Barbara

On Jan. 28, 2009 before me, Emily Logsdon, Notary Public  
(insert name and title of the officer)

personally appeared Robert Rees  
who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are  
subscribed to the within instrument and acknowledged to me that he/she/they executed the same in  
his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the  
person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing  
paragraph is true and correct.

WITNESS my hand and official seal.



Signature

A handwritten signature in cursive script, appearing to read "Emily Logsdon", written over a horizontal line.

(Seal)

PATENT

REEL: 039050 FRAME: 0323

County of \_\_\_\_\_ )

State of \_\_\_\_\_ )

ss.

Name: Larisa Tihomirov

Address: 815 East Airport Avenue

Lompoc, California 93436

By: \_\_\_\_\_

Date: \_\_\_\_\_

County of \_\_\_\_\_ )

State of \_\_\_\_\_ )

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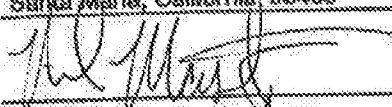
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County of \_\_\_\_\_ )  
 ss. Name: Qingchun Hu  
 Address: 818 Colbert Drive  
Lompoc, California 93436  
 By: \_\_\_\_\_  
 Date: \_\_\_\_\_

County of \_\_\_\_\_ )  
 ss. Name: George A. Nyamekye  
 Address: 2232 W. Heritage Drive  
Snowflake, Arizona 85937  
 By: \_\_\_\_\_  
 Date: \_\_\_\_\_

County of \_\_\_\_\_ )  
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County of \_\_\_\_\_ )

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County of _____ )	ss.	Name: <u>Qingchun Hu</u>
_____ )		Address: <u>616 Colbert Drive</u>
_____ )		<u>Lompoc, California 93436</u>
State of _____ )		By: _____
		Date: _____

County of _____ )	ss.	Name: <u>George A. Nyamekye</u>
_____ )		Address: <u>2045 Mariah Drive</u>
_____ )		<u>Santa Maria, California 93454</u>
State of _____ )		By: _____
		Date: _____

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_____ )		<u>Santa Maria, California 93455</u>
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County of _____ )	ss.	Name: <u>Niels S. Mastrup</u>
_____ )		Address: <u>4344 Carolyn Way</u>
_____ )		<u>Santa Maria, California 93455</u>
State of _____ )		By: _____
		Date: _____

*See Attached Certificate*

County of Santa Barbara

ss.

Name: Larisa Tihomirov  
 Address: 815 East Airport Avenue  
Lompoc, California 93436

By: Larisa Tihomirov

Date: 02/02/09

State of California

County of \_\_\_\_\_

ss.

Name: Walter N. Pavlakovich  
 Address: 1155 Clubhouse Drive  
Santa Maria, California 93455

By: \_\_\_\_\_

Date: \_\_\_\_\_

State of \_\_\_\_\_

# CALIFORNIA JURAT WITH AFFIANT STATEMENT

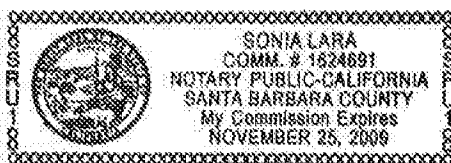
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☐ See Statement Below (Lines 1-5 to be completed only by document signer[s], not Notary)

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Signature of Document Signer No. 1 \_\_\_\_\_ Signature of Document Signer No. 2 (if any) \_\_\_\_\_

State of California

County of Santa Barbara



Subscribed and sworn to (or affirmed) before me on this

2nd day of February, 2009, by  
(1) Sonisa Schmirer  
Name of Signer

proved to me on the basis of satisfactory evidence to be the person who appeared before me (.) (.)

(and

(2) \_\_\_\_\_  
Name of Signer

proved to me on the basis of satisfactory evidence to be the person who appeared before me.)

Signature Sonia Lara  
Signature of Notary Public

Place Notary Seal Above

## OPTIONAL

Though the information below is not required by law, it may prove valuable to persons relying on the document and could prevent fraudulent removal and reattachment of this form to another document.

### Further Description of Any Attached Document

Title or Type of Document: Assignment

Document Date: Feb. 2, 2009 Number of Pages: 3

Signer(s) Other Than Named Above: \_\_\_\_\_

RIGHT THUMBPRINT OF SIGNER #1  
Top of thumb here

RIGHT THUMBPRINT OF SIGNER #2  
Top of thumb here

## ASSIGNMENT

WHEREAS We, the below named inventors (hereinafter referred to as Assignors), have made an invention entitled:

### COMPOSITION FOR FILTERING AND REMOVING PARTICLES AND/OR CONSTITUENTS FROM A FLUID

for which We executed an application for United States Letters Patent on January 14, 2009 (Application No. 12/373,753); and

WHEREAS, World Minerals Inc., a corporation of Delaware whose post office address is 130 Castilian Drive, Santa Barbara, California 93117 (hereinafter referred to as Assignee), is desirous of securing the entire right, title, and interest in and to this invention in all countries throughout the world, and in and to any PCT application and any provisional, non-provisional, and/or national stage application for United States Letters Patent on this invention and any Letters Patent to be issued upon any related application worldwide;

NOW THEREFORE, be it known that, for good and valuable consideration, the receipt of which from Assignee is hereby acknowledged, We, as Assignors, have sold, assigned, transferred, and set over, and do hereby sell, assign, transfer, and set over unto the Assignee, its lawful successors and assigns, our entire right, title, and interest in and to this invention, this application, any international PCT or U.S. provisional, non-provisional, or national stage applications (including but not limited to U.S. Provisional Application Nos. 60/830,781 and 60/945,954 and PCT International Application No. PCT/US2007/073439), and all divisions and continuations thereof, and all Letters Patent of the United States which may be granted thereon, and all reissues thereof, and all rights to claim priority on the basis of any PCT or U.S. provisional application, as well as all rights to claim priority on any related application, and all applications for Letters Patent which may hereafter be filed for this invention in any foreign country and all Letters Patent which may be granted on this invention in any foreign country, and all extensions, renewals, and reissues thereof; and We hereby authorize and request the Director of the United States Patent and Trademark Office, and any official of any foreign country whose duty it is to issue patents on applications as described above, to issue all Letters Patent for this invention to Assignee, its successors and assigns, in accordance with the terms of this Assignment;

AND, We HEREBY covenant that We have the full right to convey the interest assigned by this Assignment, and We have not executed and will not execute any agreement in conflict with this Assignment;

AND, We HEREBY further covenant and agree that We will, without further consideration, communicate with Assignee, its successors and assigns, any facts known to us respecting this invention, 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 this invention in said Assignee, its

successors or assigns, execute all divisional, continuation, and reissue applications, make all rightful oaths, and generally do everything possible to aid Assignee, its successors and assigns, to obtain, enforce, and defend 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, We have hereunto set our hands.

County of \_\_\_\_\_ )  
 )  
 )  
 )  
 State of \_\_\_\_\_ )  
 )  
 )  
 )  
 ss. Name: Qingchun Hu  
 Address: 816 Colbert Drive  
Lompoc, California 93436  
 By: \_\_\_\_\_  
 Date: \_\_\_\_\_

County of \_\_\_\_\_ )  
 )  
 )  
 )  
 State of \_\_\_\_\_ )  
 )  
 )  
 )  
 ss. Name: George A. Nyamekye  
 Address: 2045 Mariah Drive  
Santa Maria, California 93454  
 By: \_\_\_\_\_  
 Date: \_\_\_\_\_

County of \_\_\_\_\_ )  
 )  
 )  
 )  
 State of \_\_\_\_\_ )  
 )  
 )  
 )  
 ss. Name: Robert H. Rees  
 Address: 4367 Manchester Court  
Santa Maria, California 93455  
 By: \_\_\_\_\_  
 Date: \_\_\_\_\_

County of \_\_\_\_\_ )  
 )  
 )  
 )  
 State of \_\_\_\_\_ )  
 )  
 )  
 )  
 ss. Name: Niels S. Mastrup  
 Address: 4344 Carolynne Way  
Santa Maria, California 93455  
 By: \_\_\_\_\_  
 Date: \_\_\_\_\_

County of \_\_\_\_\_ )  
State of \_\_\_\_\_ )

ss. Name: Larisa Tihomirov  
Address: 815 East Airport Avenue  
Lompoc, California 93438  
By: \_\_\_\_\_  
Date: \_\_\_\_\_

County of Santa Barbara )  
State of California )

ss. Name: Walter N. Paviakovich  
Address: 1155 Clubhouse Drive  
Santa Maria, California 93455  
By: Walter N. Paviakovich  
Date: \_\_\_\_\_

03/02/09

"PLEASE SEE CERTIFICATE ATTACHED"

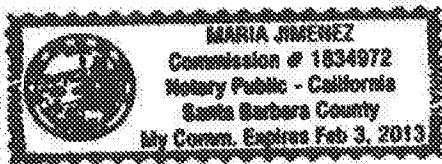
# CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

State of California

County of Santa Barbara

On March 2, 2009 before me, Maria Jimenez, Notary Public

personally appeared Walter Nicholas Pavlakovich



who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that ~~he/she/they~~ executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature

Maria Jimenez

Signature of Notary Public

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### Description of Attached Document

Title or Type of Document: Assignment/Composition for filtering and removing particles and/or constituents from a fluid.  
Document Date: January 14, 2009 Number of Pages: 3 (three)

Signer(s) Other Than Named Above: Dingchun Hu, George A. Nyamkye, Robert H. Rees, Niels S. Mastrop and Larisa T. Komarov

### Capacity(ies) Claimed by Signer(s)

Signer's Name: Walter Nicholas Pavlakovich Signer's Name: \_\_\_\_\_

- ☒ Individual  
☐ Corporate Officer — Title(s): \_\_\_\_\_  
☐ Partner — ☐ Limited ☐ General  
☐ Attorney in Fact  
☐ Trustee  
☐ Guardian or Conservator  
☐ Other: \_\_\_\_\_

Signer Is Representing: \_\_\_\_\_



- ☐ Individual  
☐ Corporate Officer — Title(s): \_\_\_\_\_  
☐ Partner — ☐ Limited ☐ General  
☐ Attorney in Fact  
☐ Trustee  
☐ Guardian or Conservator  
☐ Other: \_\_\_\_\_

Signer Is Representing: \_\_\_\_\_

