503024808 10/20/2014

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
RICHARD A. KEMP	09/18/2014
TIMOTHY J. BOYLE	09/18/2014
BERNADETTE A HERNANDEZ-SANCHEZ	09/18/2014
JAMES E. MILLER	09/18/2014

RECEIVING PARTY DATA

Name:	SANDIA CORPORATION	
Street Address:	P.O. BOX 5800, MS-0161	
City:	ALBUQUERQUE	
State/Country:	NEW MEXICO	
Postal Code:	87185	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	14488989

CORRESPONDENCE DATA

Fax Number: (505)844-9955

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.

Phone: 505-844-7283

Email: dcates@sandia.gov

Correspondent Name: SANDIA NATIONAL LABORATORIES

Address Line 1: P.O. BOX 5800, MS-0161

Address Line 4: ALBUQUERQUE, NEW MEXICO 87185

ATTORNEY DOCKET NUMBER:	SD13157/S139154
NAME OF SUBMITTER:	DIANA CATES
SIGNATURE:	/Diana Cates/
DATE SIGNED:	10/20/2014

Total Attachments: 6

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PATENT REEL: 033979 FRAME: 0279 503024808

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PATENT REEL: 033979 FRAME: 0280

ASSIGNMENT

WHEREAS, Richard A. Kemp, Timothy J. Boyle, Bernadette A. Hernandez-Sanchez and James E. Miller of Albuquerque, New Mexico, (hereinafter "Inventor(s)") co-inventors Chad Cannan of Cypress, Texas and Terrence Palisch of Richardson Texas, has(have) made an invention relating to PROPPANT COMPOSITIONS AND METHODS OF USE, in the course of the work authorized by Contract DE-AC04-94AL85000 between SANDIA CORPORATION and the UNITED STATES DEPARTMENT OF ENERGY, said invention being disclosed and claimed in an application for United States patent, identified as Application No.: 14/448,989, Filed on September 17, 2014, DOE Docket No: S-139,154 duly executed by said Inventor(s); and

WHEREAS Inventor(s), in consideration of employment by Sandia Corporation, has(have) assigned to Sandia Corporation, its successors and assigns, all of Inventor(s) rights to inventions, discoveries, or improvements made or conceived in the course of their employment; and

WHEREAS, title to the above-identified invention vests in the Government of the United States, as represented by the U.S. Department of Energy, as governed by 42 U.S.C. 5908; and

WHEREAS, the Government of the United States, as represented by the U.S. Department of Energy has granted a waiver of Government rights in the above-identified invention to Sandia Corporation; and

THEREFORE, Inventor(s) hereby sells, assigns, and transfers unto Sandia Corporation their entire right, title, and interest in and to said invention in the United States of America and all foreign countries, including, without limitation, said invention as described in the aforesaid application, and in and to any United States Letters Patent therefor, when issued together with all improvements thereon and betterments thereof, all related applications including, but not limited to, utilities, divisions, continuations, continuations-in-part, reissues and reexaminations thereof and substitutions of or for said application, and all foreign rights including the right to make application for Letters Patent for said invention in any and all foreign countries and the right to claim priority as to the filing date under the International Convention on the basis for the aforesaid application for United States Letters Patent, to the extent that Inventor(s) right, title, and interest in and to said invention has(have) not already been sold, assigned, or transferred to Sandia Corporation by Inventor(s) in consideration of Inventor(s) employment by Sandia Corporation. Inventor(s) hereby authorizes and requests the Commissioner of Patents to issue all Letters Patent issuing therefrom to Sandia Corporation, for its interest as Sandia Corporation, its successors and assigns.

Inventor(s) covenants with Sandia Corporation that, except for the rights, if any, of the Government, his/her interest in the rights and property herein conveyed is free and clear of any encumbrance and that they have full right to convey the same as herein expressed. Inventor(s) agrees, at the request of Sandia Corporation, to make, execute, and deliver to Sandia Corporation, the Government, or other party prosecuting patent applications on this invention, any and all papers, documents, affidavits, applications, statements or other instruments relating

to said invention, take all rightful oaths and do all acts as may reasonably be required of them in or incident to the prosecution of any or all U.S. and foreign applications on said invention or in the adjustment or settlement of any interferences or other actions or proceedings that said applications or patents thereon may encounter or in which they may become involved.

Signed at Albuquerque, New Mexico.

Richard A. Kemp

Sept. 18, 2014 Date

Timothy J. Boyle

09-18-2014 Date

Bernadette A. Hernandez-Sanchez

9 18 2014 Date

James E. Miller

9/18 /2014 Date

STATE OF NEW MEXICO

) ss:

COUNTY OF BERNALILLO

Notary Public

OFFICIAL SEAL
STEPHANIE R. GALLEGOS
NOTARY PUBLIC
STATE OF NEW MEXICO

My Commission Expires 7eb 23,

Approved and consented by:

SANDIA CORPORATION

Date; <u>/ 1/20 2014</u>

Kerry Kampschmidt

Sr. Managing IP Counsel

Legal Technology Transfer Center

STATE OF NEW MEXICO

) ss:

COUNTY OF BERNALILLO

On the above date, personally appeared before me, Diana Cates, Notary Public, Kerry Kampschmidt, to me known to be the individual described in and who executed the foregoing instrument, and who acknowledged to me that he executed the same.

Notary Public

OFFICIAL SEAL
Diana Cates
NOTARY PUBLIC
STATE OF NEW MEXIC

My Commission Expires:

ASSIGNMENT

WHEREAS, Richard A. Kemp, Timothy J. Boyle, Bernadette A. Hernandez-Sanchez and James E. Miller of Albuquerque, New Mexico, (hereinafter "Inventor(s)") co-inventors Chad Cannan of Cypress, Texas and Terrence Palisch of Richardson Texas, has(have) made an invention relating to PROPPANT COMPOSITIONS AND METHODS OF USE, in the course of the work authorized by Contract DE-AC04-94AL85000 between SANDIA CORPORATION and the UNITED STATES DEPARTMENT OF ENERGY, said invention being disclosed and claimed in an application for United States patent, identified as Application No.: 14/448,989, Filed on September 17, 2014, DOE Docket No: S-139,154 duly executed by said Inventor(s); and

WHEREAS Inventor(s), in consideration of employment by Sandia Corporation, has(have) assigned to Sandia Corporation, its successors and assigns, all of Inventor(s) rights to inventions, discoveries, or improvements made or conceived in the course of their employment; and

WHEREAS, title to the above-identified invention vests in the Government of the United States, as represented by the U.S. Department of Energy, as governed by 42 U.S.C. 5908; and

WHEREAS, the Government of the United States, as represented by the U.S. Department of Energy has granted a waiver of Government rights in the above-identified invention to Sandia Corporation; and

THEREFORE, Inventor(s) hereby sells, assigns, and transfers unto Sandia Corporation their entire right, title, and interest in and to said invention in the United States of America and all foreign countries, including, without limitation, said invention as described in the aforesaid application, and in and to any United States Letters Patent therefor, when issued together with all improvements thereon and betterments thereof, all related applications including, but not limited to, utilities, divisions, continuations, continuations-in-part, reissues and reexaminations thereof and substitutions of or for said application, and all foreign rights including the right to make application for Letters Patent for said invention in any and all foreign countries and the right to claim priority as to the filing date under the International Convention on the basis for the aforesaid application for United States Letters Patent, to the extent that Inventor(s) right, title, and interest in and to said invention has(have) not already been sold, assigned, or transferred to Sandia Corporation by Inventor(s) in consideration of Inventor(s) employment by Sandia Corporation. Inventor(s) hereby authorizes and requests the Commissioner of Patents to issue all Letters Patent issuing therefrom to Sandia Corporation, for its interest as Sandia Corporation, its successors and assigns.

Inventor(s) covenants with Sandia Corporation that, except for the rights, if any, of the Government, his/her interest in the rights and property herein conveyed is free and clear of any encumbrance and that they have full right to convey the same as herein expressed. Inventor(s) agrees, at the request of Sandia Corporation, to make, execute, and deliver to Sandia Corporation, the Government, or other party prosecuting patent applications on this invention, any and all papers, documents, affidavits, applications, statements or other instruments relating

to said invention, take all rightful oaths and do all acts as may reasonably be required of them in or incident to the prosecution of any or all U.S. and foreign applications on said invention or in the adjustment or settlement of any interferences or other actions or proceedings that said applications or patents thereon may encounter or in which they may become involved.

Signed at Albuquerque, New Mexico.

COUNTY OF BERNALILLO

Richard A. Kemp

Sept. 18, 2014

Date

Date

OP-18-2014

Date

Place

Date

Place

James E. Miller

STATE OF NEW MEXICO

Sept. 18, 2014

Date

OP-18-2014

Date

OP-18-2014

Date

OP-18-2014

Date

OP-18-2014

Date

Stephanie R. Hallego Notary Public

OFFICIAL SEAL
SIEPHANIE R. GALLEGOS
NOTARY PUBLIC
STATE OF NEW MEXICO
My Commission Expires 723, 2015

Approved and consented by:

Sa.

2014

SANDIA CORPORATION

Kerry Kampschmidt

Sr. Managing IP Counsel

Legal Technology Transfer Center

STATE OF NEW MEXICO

) 883

COUNTY OF BERNALILLO

On the above date, personally appeared before me, Diana Cates, Notary Public, Kerry Kampschmidt, to me known to be the individual described in and who executed the foregoing instrument, and who acknowledged to me that he executed the same.

Liana las

Notary Public

OFFICIAL SEAL
Diana Cates

NOTARY PUBLIC STATE OF NEW MEXIC

My Commission Expires: