

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT3270459

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
DAVID S. SOANE	02/23/2015
ROBERT P. MAHONEY	02/13/2015
MARIE K. HERRING	02/13/2015
KEVIN P. KINCAID	03/06/2015
ROSA CASADO PORTILLA	02/13/2015
PHILIP WUTHRICH	02/25/2015
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	SELF-SUSPENDING PROPPANT LLC
<b>Street Address:</b>	35 SPINELLI PLACE
<b>City:</b>	CAMBRIDGE
<b>State/Country:</b>	MASSACHUSETTS
<b>Postal Code:</b>	02138
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
Application Number:	14197596
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(216)241-0816
<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>	216.622.8200
<b>Email:</b>	ipdocket@calfee.com
<b>Correspondent Name:</b>	JOHN E. MILLER
<b>Address Line 1:</b>	1405 EAST SIXTH STREET
<b>Address Line 2:</b>	CALFEE, HALTER & GRISWOLD LLP
<b>Address Line 4:</b>	CLEVELAND, OHIO 44114-4607
<b>ATTORNEY DOCKET NUMBER:</b>	17922/04989 (1039US7)
<b>NAME OF SUBMITTER:</b>	JOHN E. MILLER
<b>SIGNATURE:</b>	/JE Miller/
<b>DATE SIGNED:</b>	03/18/2015

**Total Attachments: 6**

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ASSIGNMENT

WHEREAS, we, Robert P. Mahoney, David S. Soane, Marie K. Herring, Kevin P. Kincaid, Rosa Casado Portilla and Phillip Wuthrich have invented a certain improvement in SELF-SUSPENDING PROPPANTS FOR HYDRAULIC FRACTURING described in an application for Letters Patent of the United States, the specification of which:

[X] was filed on March 5, 2014 as Application No. 14/197,596.

WHEREAS, Self-Suspending Proppant LLC (hereinafter "ASSIGNEE"), a corporation organized and existing under the laws of the State of Delaware, and having a usual place of business at 35 Spinelli Place, Cambridge, Massachusetts 02138 desires to acquire an interest therein in accordance with agreements duly entered into with us;

NOW, THEREFORE, to all whom it may concern be it known that for and in consideration of said agreements and of other good and valuable consideration, the receipt of which is hereby acknowledged, we have sold, assigned and transferred and by these presents do hereby sell, assign and transfer unto said ASSIGNEE, its successors, assigns and legal representatives, the entire right, title and interest in and throughout the United States of America, its territories and all foreign countries, in and to said invention as described in said application and all divisionals, renewals, and continuations thereof, together with the entire right, title and interest in and to said application and such Letters Patent as may issue thereon and all reissues and extensions thereof; said invention, application and Letters Patent to be held and enjoyed by said ASSIGNEE for its own use and behalf and for its successors, assigns and legal representatives, to the full end of the term for which said Letters Patent may be granted as fully and entirely as the same would have been held by us had this assignment and sale not been made; we hereby convey all rights arising under or pursuant to any and all international agreements, treaties or laws relating to the protection of industrial property including, without limitation, all applications for patents, utility models and designs which may be filed for said invention in any countries foreign to the United States together with the right to file such applications and the right to claim for the same the priority rights derived from said United States application under the Patent Laws of the United States, the International Convention for the Protection of Industrial Property, or any other international agreement or the domestic laws of the country in which any such application is filed as may be applicable; and all forms of industrial property protection including, without limitation, patents, utility models, inventor's certificates, and designs which may be granted for said invention in any country foreign to the United States and all extensions, renewals and reissues thereof; and all right to sue for infringement including past infringement. We hereby acknowledge that this assignment, being of the entire right, title and interest in and to said invention, carries with it the right in ASSIGNEE to apply for and obtain from competent authorities in all countries of the world any and all Letters Patent by attorneys and agents of ASSIGNEE's selection and the right to procure the grant of all such Letters Patent to ASSIGNEE for its own name as assignee of the entire right, title and interest therein;

AND, we hereby covenant and agree that we have full right to convey the entire interest herein assigned and that we have not executed, and will not execute, any agreement in conflict herewith;

AND, we hereby further agree for ourselves and our executors and administrators to execute upon request any other lawful documents and likewise to perform any other lawful acts which may be deemed necessary to secure fully the aforesaid invention to said ASSIGNEE, its successors, assigns and legal representatives, but at its or their expense and charges, including the execution of applications for patents in foreign countries, and the execution of substitution, reissue, divisional or continuation applications and preliminary or other statements and the giving of testimony in any interference or other proceeding in which said invention or any application or patent directed thereto may be involved;

AND, we do hereby authorize and request the Commissioner of Patents of the United States to issue such Letters Patent as shall be granted upon said application or applications based thereon to said ASSIGNEE, its successors, assigns, and legal representatives.

IN TESTIMONY WHEREOF, we have hereunto set our hands and affixed our seals the date set forth below.

Inventor: David Soane  
David S. Soane

State/Commonwealth

of Massachusetts

County of Middlesex

On this 23 day of February, 2015, before me, the undersigned notary public, personally appeared David S. Soane proved to me through satisfactory evidence of identification, which were personal knowledge, to be the person whose name is signed on the preceding or attached document, and acknowledged that he/she executed the foregoing instrument as his/her free act and deed.

Alexis C. Meng  
NOTARY PUBLIC  
Commonwealth of Massachusetts  
My Commission Expires 8/19/2016

(SEAL)

Alexis C. Meng Notary Public  
(print name)

My Commission expires \_\_\_ / \_\_\_ / \_\_\_

(// - GENERAL - //4055/GENERAL/00235385/v1)

ASSIGNMENT

WHEREAS, we, Robert P. Mahoney, David S. Soane, Marie K. Herring, Kevin P. Kincaid, Rosa Casado Portilla and Philip Wuthrich have invented a certain improvement in **SELF-SUSPENDING PROPPANTS FOR HYDRAULIC FRACTURING** described in an application for Letters Patent of the United States, the specification of which:

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WHEREAS, Self-Suspending Proppant LLC (hereinafter "ASSIGNEE"), a corporation organized and existing under the laws of the State of Delaware, and having a usual place of business at 35 Spinelli Place, Cambridge, Massachusetts 02138 desires to acquire an interest therein in accordance with agreements duly entered into with us;

NOW, THEREFORE, to all whom it may concern be it known that for and in consideration of said agreements and of other good and valuable consideration, the receipt of which is hereby acknowledged, we have sold, assigned and transferred and by these presents do hereby sell, assign and transfer unto said ASSIGNEE, its successors, assigns and legal representatives, the entire right, title and interest in and throughout the United States of America, its territories and all foreign countries, in and to said invention as described in said application and all divisionals, renewals, and continuations thereof, together with the entire right, title and interest in and to said application and such Letters Patent as may issue thereon and all reissues and extensions thereof; said invention, application and Letters Patent to be held and enjoyed by said ASSIGNEE for its own use and behalf and for its successors, assigns and legal representatives, to the full end of the term for which said Letters Patent may be granted as fully and entirely as the same would have been held by us had this assignment and sale not been made; we hereby convey all rights arising under or pursuant to any and all international agreements, treaties or laws relating to the protection of industrial property including, without limitation, all applications for patents, utility models and designs which may be filed for said invention in any countries foreign to the United States together with the right to file such applications and the right to claim for the same the priority rights derived from said United States application under the Patent Laws of the United States, the International Convention for the Protection of Industrial Property, or any other international agreement or the domestic laws of the country in which any such application is filed as may be applicable; and all forms of industrial property protection including, without limitation, patents, utility models, inventor's certificates, and designs which may be granted for said invention in any country foreign to the United States and all extensions, renewals and reissues thereof; and all right to sue for infringement including past infringement. We hereby acknowledge that this assignment, being of the entire right, title and interest in and to said invention, carries with it the right in ASSIGNEE to apply for and obtain from competent authorities in all countries of the world any and all Letters Patent by attorneys and agents of ASSIGNEE's selection and the right to procure the grant of all such Letters Patent to ASSIGNEE for its own name as assignee of the entire right, title and interest therein;

AND, we hereby covenant and agree that we have full right to convey the entire interest herein assigned and that we have not executed, and will not execute, any agreement in conflict herewith;

AND, we hereby further agree for ourselves and our executors and administrators to execute upon request any other lawful documents and likewise to perform any other lawful acts which may be deemed necessary to secure fully the aforesaid invention to said ASSIGNEE, its successors, assigns and legal representatives, but at its or their expense and charges, including the execution of applications for patents in foreign countries, and the execution of substitution, reissue, divisional or continuation applications and preliminary or other statements and the giving of testimony in any interference or other proceeding in which said invention or any application or patent directed thereto may be involved;

AND, we do hereby authorize and request the Commissioner of Patents of the United States to issue such Letters Patent as shall be granted upon said application or applications based thereon to said ASSIGNEE, its successors, assigns, and legal representatives.

IN TESTIMONY WHEREOF, we have hereunto set our hands and affixed our seals the date set forth below.

Inventor: 

Robert P. Mahoney

State/Commonwealth

of Massachusetts

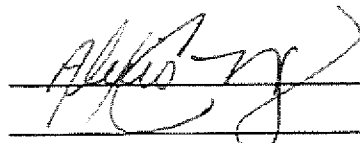
County of Middlesex

On this 13 day of February, 2015, before me, the undersigned notary public, personally appeared Robert P. Mahoney proved to me through satisfactory evidence of identification, which were personal knowledge, to be the person whose name is signed on the preceding or attached document, and acknowledged that he/she executed the foregoing instrument as his/her free act and deed.

Alexis C. Meng  
NOTARY PUBLIC

Commonwealth of Massachusetts  
My Commission Expires 01/19/2016

(SEAL)

 Notary Public  
(print name)

My Commission expires \_\_\_/\_\_\_/\_\_\_

{/-- GENERAL --/4055/GENERAL/00235384/v1}

ASSIGNMENT

WHEREAS, we, Robert P. Mahoney, David S. Soane, Marie K. Herring, Kevin P. Kincaid, Rosa Casado Portilla and Philip Wuthrich have invented a certain improvement in **SELF-SUSPENDING PROPPANTS FOR HYDRAULIC FRACTURING** described in an application for Letters Patent of the United States, the specification of which:

[X] was filed on **March 5, 2014** as Application No. **14/197,596**.

WHEREAS, **Self-Suspending Proppant LLC** (hereinafter "ASSIGNEE"), a corporation organized and existing under the laws of the **State of Delaware**, and having a usual place of business at **35 Spinelli Place, Cambridge, Massachusetts 02138** desires to acquire an interest therein in accordance with agreements duly entered into with us;

NOW, THEREFORE, to all whom it may concern be it known that for and in consideration of said agreements and of other good and valuable consideration, the receipt of which is hereby acknowledged, we have sold, assigned and transferred and by these presents do hereby sell, assign and transfer unto said ASSIGNEE, its successors, assigns and legal representatives, the entire right, title and interest in and throughout the United States of America, its territories and all foreign countries, in and to said invention as described in said application and all divisionals, renewals, and continuations thereof, together with the entire right, title and interest in and to said application and such Letters Patent as may issue thereon and all reissues and extensions thereof, said invention, application and Letters Patent to be held and enjoyed by said ASSIGNEE for its own use and behalf and for its successors, assigns and legal representatives, to the full end of the term for which said Letters Patent may be granted as fully and entirely as the same would have been held by us had this assignment and sale not been made; we hereby convey all rights arising under or pursuant to any and all international agreements, treaties or laws relating to the protection of industrial property including, without limitation, all applications for patents, utility models and designs which may be filed for said invention in any countries foreign to the United States together with the right to file such applications and the right to claim for the same the priority rights derived from said United States application under the Patent Laws of the United States, the International Convention for the Protection of Industrial Property, or any other international agreement or the domestic laws of the country in which any such application is filed as may be applicable; and all forms of industrial property protection including, without limitation, patents, utility models, inventor's certificates, and designs which may be granted for said invention in any country foreign to the United States and all extensions, renewals and reissues thereof; and all right to sue for infringement including past infringement. We hereby acknowledge that this assignment, being of the entire right, title and interest in and to said invention, carries with it the right in ASSIGNEE to apply for and obtain from competent authorities in all countries of the world any and all Letters Patent by attorneys and agents of ASSIGNEE's selection and the right to procure the grant of all such Letters Patent to ASSIGNEE for its own name as assignee of the entire right, title and interest therein;

AND, we hereby covenant and agree that we have full right to convey the entire interest herein assigned and that we have not executed, and will not execute, any agreement in conflict herewith;

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AND, we do hereby authorize and request the Commissioner of Patents of the United States to issue such Letters Patent as shall be granted upon said application or applications based thereon to said ASSIGNEE, its successors, assigns, and legal representatives.

IN TESTIMONY WHEREOF, we have hereunto set our hands and affixed our seals the date set forth below.

Inventor: Marie K. Herring

Marie K. Herring

State/Commonwealth

of Massachusetts

County of Middlesex

On this 13 day of February, 2015, before me, the undersigned notary public, personally appeared Marie K. Herring proved to me through satisfactory evidence of identification, which were personal knowledge, to be the person whose name is signed on the preceding or attached document, and acknowledged that he/she executed the foregoing instrument as his/her free act and deed.

Alexis G. Wong  
NOTARY PUBLIC  
Commonwealth of Massachusetts  
My Commission Expires 03/31/2018

(SEAL)

Alexis G. Wong Notary Public  
(print name)

My Commission expires    /    /   

(/--- GENERAL ---/4055/GENERAL/00235386/v1)

ASSIGNMENT

WHEREAS, we, Robert P. Mahoney, David S. Soane, Marie K. Herring, Kevin P. Kincaid, Rosa Casado Portilla and Philip Wuthrich have invented a certain improvement in SELF-SUSPENDING PROPPANTS FOR HYDRAULIC FRACTURING described in an application for Letters Patent of the United States, the specification of which:

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NOW, THEREFORE, to all whom it may concern be it known that for and in consideration of said agreements and of other good and valuable consideration, the receipt of which is hereby acknowledged, we have sold, assigned and transferred and by these presents do hereby sell, assign and transfer unto said ASSIGNEE, its successors, assigns and legal representatives, the entire right, title and interest in and throughout the United States of America, its territories and all foreign countries, in and to said invention as described in said application and all divisionals, renewals, and continuations thereof, together with the entire right, title and interest in and to said application and such Letters Patent as may issue thereon and all reissues and extensions thereof; said invention, application and Letters Patent to be held and enjoyed by said ASSIGNEE for its own use and behalf and for its successors, assigns and legal representatives, to the full end of the term for which said Letters Patent may be granted as fully and entirely as the same would have been held by us had this assignment and sale not been made; we hereby convey all rights arising under or pursuant to any and all international agreements, treaties or laws relating to the protection of industrial property including, without limitation, all applications for patents, utility models and designs which may be filed for said invention in any countries foreign to the United States together with the right to file such applications and the right to claim for the same the priority rights derived from said United States application under the Patent Laws of the United States, the International Convention for the Protection of Industrial Property, or any other international agreement or the domestic laws of the country in which any such application is filed as may be applicable; and all forms of industrial property protection including, without limitation, patents, utility models, inventor's certificates, and designs which may be granted for said invention in any country foreign to the United States and all extensions, renewals and reissues thereof; and all right to sue for infringement including past infringement. We hereby acknowledge that this assignment, being of the entire right, title and interest in and to said invention, carries with it the right in ASSIGNEE to apply for and obtain from competent authorities in all countries of the world any and all Letters Patent by attorneys and agents of ASSIGNEE's selection and the right to procure the grant of all such Letters Patent to ASSIGNEE for its own name as assignee of the entire right, title and interest therein;

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AND, we do hereby authorize and request the Commissioner of Patents of the United States to issue such Letters Patent as shall be granted upon said application or applications based thereon to said ASSIGNEE, its successors, assigns, and legal representatives.

IN TESTIMONY WHEREOF, we have hereunto set our hands and affixed our seals the date set forth below.

Inventor: Kevin P. Kincaid  
Kevin P. Kincaid

State/Commonwealth

of Massachusetts

County of Middlesex

On this 6 day of March, 2015, before me, the undersigned notary public, personally appeared Kevin P. Kincaid proved to me through satisfactory evidence of identification, which were personal knowledge to be the person whose name is signed on the preceding or attached document, and acknowledged that he/she executed the foregoing instrument as his/her free act and deed.

(SEAL) Ang C. Meng  
NOTARY PUBLIC  
Commonwealth of Massachusetts  
My Commission Expires 8/19/2018

Alexander J. [Signature] Notary Public  
(print name)  
My Commission expires 1 / 1 / 2018

(//A- GENERAL --//4055/GENERAL/00235387/v1)

ASSIGNMENT

WHEREAS, we, Robert P. Mahoney, David S. Soane, Marie K. Herring, Kevin P. Kincaid, Rosa Casado Portilla and Philip Wuthrich have invented a certain improvement in SELF-SUSPENDING PROPPANTS FOR HYDRAULIC FRACTURING described in an application for Letters Patent of the United States, the specification of which:

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IN TESTIMONY WHEREOF, we have hereunto set our hands and affixed our seals the date set forth below.

Inventor:   
Rosa Casado Portilla

State/Commonwealth

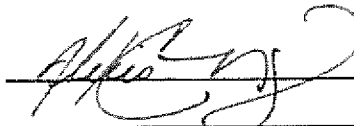
of Massachusetts

County of Middlesex

On this 13 day of February, 2015, before me, the undersigned notary public, personally appeared Rosa Casado Portilla proved to me through satisfactory evidence of identification, which were Personal Knowledge, to be the person whose name is signed on the preceding or attached document, and acknowledged that he/she executed the foregoing instrument as his/her free act and deed.

Alaris C. Meng  
NOTARY PUBLIC  
Commonwealth of Massachusetts  
(Seal Commission Expires 01/01/2016)

(SEAL)

 Notary Public  
(print name)

My Commission expires \_\_\_ / \_\_\_ / \_\_\_

{/-- GENERAL --/4055/GENERAL/00235388/v1}

ASSIGNMENT

WHEREAS, we, Robert P. Mahoney, David S. Soane, Marie K. Herring, Kevin P. Kincaid, Rosa Casado Portilla and Philip Wuthrich have invented a certain improvement in SELF-SUSPENDING PROPPANTS FOR HYDRAULIC FRACTURING described in an application for Letters Patent of the United States, the specification of which:

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AND, we do hereby authorize and request the Commissioner of Patents of the United States to issue such Letters Patent as shall be granted upon said application or applications based thereon to said ASSIGNEE, its successors, assigns, and legal representatives.

IN TESTIMONY WHEREOF, we have hereunto set our hands and affixed our seals the date set forth below.

Inventor:

  
Philip Wuthrich

State/Commonwealth


of

County of

On this 25 day of February, 2015, before me, the undersigned notary public, personally appeared Philip Wuthrich proved to me through satisfactory evidence of identification, which were personal knowledge, to be the person whose name is signed on the preceding or attached document, and acknowledged that he/she executed the foregoing instrument as his/her free act and deed.

Commission Expires 08/18/2016  
By Commission Expires 8/18/2016

(SEAL)



Notary Public

(print name)

My Commission expires    /    /   

{/-- GENERAL --/4055/GENERAL/00235389/v1}

PATENT

RECORDED: 03/18/2015

REEL: 035191 FRAME: 0180