

PATENT ASSIGNMENT

Electronic Version v1.1
 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT																														
NATURE OF CONVEYANCE:	ASSIGNMENT																														
CONVEYING PARTY DATA																															
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Fedor Nikolaevich Litvinets</td> <td>07/23/2012</td> </tr> <tr> <td>Andrey Vladimirovich Bogdan</td> <td>08/03/2012</td> </tr> <tr> <td>Sergey Mikhailovich Makarychev-Mikhailov</td> <td>07/31/2012</td> </tr> <tr> <td>Oleg Medvedev</td> <td>07/27/2012</td> </tr> <tr> <td>Alejandro Pena</td> <td>08/08/2012</td> </tr> <tr> <td>Konstantin Mikhailovich Lyapunov</td> <td>08/03/2012</td> </tr> <tr> <td>Alexander Vuacheslavovich Mikhaylov</td> <td>07/27/2012</td> </tr> <tr> <td>Timothy M. Lesko</td> <td>08/08/2012</td> </tr> <tr> <td>J. Ernest Brown</td> <td>08/06/2012</td> </tr> <tr> <td>Dean M. Willberg</td> <td>08/06/2012</td> </tr> <tr> <td>Ivan Vitalievich Kosarev</td> <td>08/14/2012</td> </tr> <tr> <td>Anatoly Vladimirovich Medvedev</td> <td>07/23/2012</td> </tr> <tr> <td>Jonathan Abbott</td> <td>07/27/2012</td> </tr> <tr> <td>Alexander Alexandrovich Burukhin</td> <td>07/25/2012</td> </tr> </tbody> </table>		Name	Execution Date	Fedor Nikolaevich Litvinets	07/23/2012	Andrey Vladimirovich Bogdan	08/03/2012	Sergey Mikhailovich Makarychev-Mikhailov	07/31/2012	Oleg Medvedev	07/27/2012	Alejandro Pena	08/08/2012	Konstantin Mikhailovich Lyapunov	08/03/2012	Alexander Vuacheslavovich Mikhaylov	07/27/2012	Timothy M. Lesko	08/08/2012	J. Ernest Brown	08/06/2012	Dean M. Willberg	08/06/2012	Ivan Vitalievich Kosarev	08/14/2012	Anatoly Vladimirovich Medvedev	07/23/2012	Jonathan Abbott	07/27/2012	Alexander Alexandrovich Burukhin	07/25/2012
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RECEIVING PARTY DATA																															
<table border="1"> <tr> <td>Name:</td> <td>SCHLUMBERGER TECHNOLOGY CORPORATION</td> </tr> <tr> <td>Street Address:</td> <td>300 Schlumberger Drive</td> </tr> <tr> <td>City:</td> <td>Sugar Land</td> </tr> <tr> <td>State/Country:</td> <td>TEXAS</td> </tr> <tr> <td>Postal Code:</td> <td>77478</td> </tr> </table>		Name:	SCHLUMBERGER TECHNOLOGY CORPORATION	Street Address:	300 Schlumberger Drive	City:	Sugar Land	State/Country:	TEXAS	Postal Code:	77478																				
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PROPERTY NUMBERS Total: 1																															
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>13494503</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13494503																										
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Application Number:	13494503																														
CORRESPONDENCE DATA																															
Fax Number:	7136892219																														

CH \$40.00 13494503

Phone: 719-689-6265
Email: lgoldsmith@slb.com
Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.
Correspondent Name: SCHLUMBERGER TECHNOLOGY CORPORATION
Address Line 1: 10001 Richmond Avenue
Address Line 2: IP Center of Excellence
Address Line 4: Houston, TEXAS 77042

ATTORNEY DOCKET NUMBER:	IS11.0424-US-NP
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NAME OF SUBMITTER:	Leslie Goldsmith
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Total Attachments: 18
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Assignment

WHEREAS, the undersigned inventors hereinafter referred to as the "Inventors" each said Inventor's address being listed below:

Fedor Nikolaevich Litvinets, a citizen of Russian Federation, residing at Gomo-Altayskaya 50 bld., 31 ap. Biysk, Altay region, 659305 Russia;

Andrey Vladimirovich Bogdan, a citizen of Russian Federation, residing at Truzhenikov 7, ap. 204, Novosibirsk, 630058, Russia;

Sergey Mikhailovich Makarychev-Mikhailov, a citizen of Russian Federation, residing at 11-3 S. Kovalevskaya St., apt. 38, St. Petersburg, 195252, Russia;

Oleg Medvedev, a citizen of Ukraine, residing at Geroev Stalingrada str. 10a, apt. 66, Kyiv, 04210, Ukraine;

Alejandro Pena, a citizen of Venezuela, residing at 26215 Grace Hills Ln Katy, Texas 77494 USA;

Konstantin Mikhailovich Lyapunov, a citizen of Russian Federation, residing at 3-301, Rossijskaya str., Novosibirsk, 630117, Russia;

Alexander Vuacheslavovich Mikhaylov, a citizen of Russian Federation, residing at 2-G-62, Komsomolskaya str., Berdsk city, Novosibirsk, 633011, Russia;

Timothy M. Lesko, a citizen of the United States of America, residing at 2530 Windfall Lane, Sugar Land, Texas 77479 USA;

J. Ernest Brown, a citizen of the United States of America, residing at 5151 East Boardwalk Drive, Unit V-1 Fort Collins, Colorado 80525 USA;

Dean M. Willberg, a citizen of Canada, residing at 2204 E. Emerson, Salt Lake City, Utah 84108, USA;

Ivan Vitalievich Kosarev, a citizen of Russian Federation, residing at Vernadskogo Avenue, 101, Bldg 3, Moscow 119526, Russia;

Anatoly Vladimirovich Medvedev, a citizen of Russian Federation, residing at Litovsky Bulvar, 46, Bldg 1, Apt 209, Moscow, 117588, Russia;

Jonathan Abbott, a citizen of the United Kingdom, residing at 3 Hollyhocks, Reading Road, Didcot OX11 0LX, United Kingdom;

and

Alexander Alexandrovich Burukhin, a citizen of Russian Federation, residing at 11-77, Konenkova str., Moscow, 127560, Russia;

Has/have invented certain new and useful improvements in

**HETEROGENOUS PROPANT PLACEMENT IN A FRACTURE WITH REMOVABLE
EXTRAMETRICAL MATERIAL FILL**

as described and set forth in an application for Letters Patent of the United States of America, filed on June 12, 2012 under Attorney Docket No. IS11.0424-US-NP assigned serial # 13/494503. This assignment is effective as of June 12, 2012.

AND WHEREAS, the "**COMPANIES**", listed in Schedule A, are desirous of acquiring or confirming their acquisition of the entire right, title and interest in and to said invention, inventions or improvements, and in and to said application, and in and to any and all patents, both of the United States and of all foreign countries, that may be obtained therefore as outlined in Schedule A;

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN, BE IT KNOWN, that the undersigned Inventors, for good and valuable considerations, the receipt and sufficiency of which hereby acknowledge, have sold, assigned, transferred and conveyed, and by this assignment do sell, assign, transfer and convey, unto said **COMPANIES**, their successors and assigns, the entire right, title and interest throughout the world, in and to the above-described invention, inventions or improvements described or set forth in said application, in any form or embodiment thereof, and in and to said application, and in and to any applications filed in any foreign country based thereon, including the right to file foreign applications under the provisions of any convention or treaty; and in and to any confirmation, divisional, continuation, continuation-in-part, or substitute application which may be filed on said invention, inventions or improvements in the United States or in any foreign country; and in and to any and all patents, certificates, utility models, reissues, extensions, additions or confirmations thereof which may be granted in the United States or in any foreign country upon said invention, inventions or improvements,

TO HAVE AND TO HOLD the same to the full end of the term or terms for which any and all such United States and foreign patents and grants may be issued on said invention, inventions or improvements.

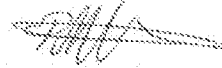
AND said Inventors do hereby authorize and request the issuing authority to issue any and all of said United States and foreign patents on said application or applications to said **COMPANIES**, their successors and assigns, as the assignee of the entire right, title and interest in and to the same, for the sole use and benefit of said **COMPANIES**, their successors and assigns.

AND said Inventors do hereby covenant and warrant that said Inventors have full right to convey the entire right, title and interest herein assigned free and clear of all licenses, encumbrances and liens whatsoever, and that no said Inventors has executed and will execute any instruments in conflict herewith.

AND said Inventors, for the conditions aforesaid, do hereby covenant and agree to and with the said **COMPANIES**, their successors and assigns, that each Inventor, his or her executors, administrators, or other personal representatives, shall and will do all lawful acts and things, make all rightful oaths, and make, execute and deliver any and all other instruments in writing, and any and all further applications, papers, powers, affidavits, assignments, disclaimers and other documents, which in the opinion of counsel for said **COMPANIES**, their successors and assigns, may be required or necessary in this or in any foreign country more effectually to secure to and vest in said **COMPANIES**, their successors and assigns, the entire right, title and interest in and

to said invention, inventions or improvements, application or applications, patents, rights, titles, benefits, privileges, and advantages hereby sold, assigned, confirmed, transferred and conveyed.

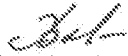
IN WITNESS WHEREOF I, **Fedor Nikolaevich Litvinets**, have hereunto set my hand and seal
this 23 day of July, 2012.



Fedor Nikolaevich Litvinets

BE IT KNOWN that **Fedor Nikolaevich Litvinets** is to me known to be the individual described
in the foregoing assignment, that on this 23 day of July, 2012, I was
personally present and did see him sign and execute the foregoing assignment; and, that he did
acknowledge to me that he executed the same as his free act and deed for the uses and purposes
therein set forth.

Roman Vysockiy
Witness



Ivanova str., 15/26
Novosibirsk, Russia,
630055
Post Office Address

Ivellaia Berdyuzina
Witness



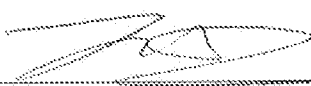
41/5-217, Vysockogo str.
Novosibirsk, 630133
Russia
Post Office Address

IN WITNESS WHEREOF I, **Andrey Vladimirovich Bogdan**, have hereunto set my hand and seal this 5 day of August, 2012.



Andrey Vladimirovich Bogdan

BE IT KNOWN that **Andrey Vladimirovich Bogdan** is to me known to be the individual described in the foregoing assignment, that on this 5 day of August, 2012, I was personally present and did see him sign and execute the foregoing assignment; and, that he did acknowledge to me that he executed the same as his free act and deed for the uses and purposes therein set forth.



Witness

Michael Dae
110 Schlumberger Dr. MD-1
Sugar Land, TX 77584

Post Office Address

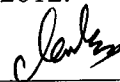


Witness

John Thomas Mayo
125 Schlumberger Dr. MD-2
Sugar Land, TX 77478

Post Office Address

IN WITNESS WHEREOF I, **Sergey Mikhailovich Makarychev-Mikhailov**, have hereunto set my hand and seal this 31 day of July, 2012.



Sergey Mikhailovich Makarychev-Mikhailov

BE IT KNOWN that **Sergey Mikhailovich Makarychev-Mikhailov** is to me known to be the individual described in the foregoing assignment, that on this 31 day of July, 2012, I was personally present and did see him sign and execute the foregoing assignment; and, that he did acknowledge to me that he executed the same as his free act and deed for the uses and purposes therein set forth.

Olga Neuvonen
Witness

110 Schlumberger Dr, MD-3
Sugar Land, Texas

77478
Post Office Address

Bruno LECERF
Witness

110 Schlumberger Dr #3
Sugar Land TX 77478
USA

Post Office Address

IN WITNESS WHEREOF I, **Oleg Medvedev**, have hereunto set my hand and seal this
27 day of July, 2012.



Oleg Medvedev

BE IT KNOWN that **Oleg Medvedev** is to me known to be the individual described in the foregoing assignment, that on this 27 day of July, 2012, I was personally present and did see him sign and execute the foregoing assignment; and, that he did acknowledge to me that he executed the same as his free act and deed for the uses and purposes therein set forth.

Nejib HAMED

Witness

9450-17 Avenue

EDMONTON, AB

T6N 1M9

CANADA

Post Office Address

Doug Pagnon

Witness

9450-17 Ave

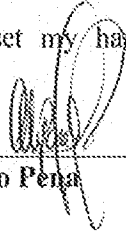
Edmonton AB

T6N 1M9

Canada

Post Office Address

IN WITNESS WHEREOF I, Alejandro Pena, have hereunto set my hand and seal this
8th day of AUGUST, 2012.



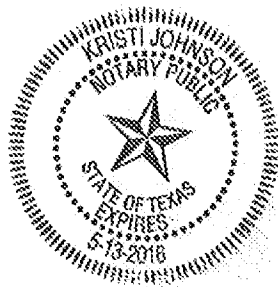
Alejandro Pena

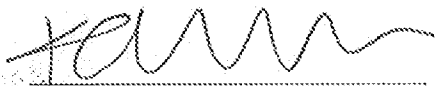
STATE OF TEXAS

COUNTY OF FORT BEND

BEFORE ME this 8 day of AUGUST, 2012, personally appeared Alejandro Pena, to me known to be the person who is described in and who executed the foregoing assignment instrument and acknowledged to me that he executed the same of his own free will for the purpose therein expressed.

Seal





Notary Public

IN WITNESS WHEREOF I, **Konstantin Mikhailovich Lyapunov**, have hereunto set my hand and seal this 03 day of August, 2012.

Konstantin
Konstantin Mikhailovich Lyapunov

BE IT KNOWN that **Konstantin Mikhailovich Lyapunov** is to me known to be the individual described in the foregoing assignment, that on this 03 day of August, 2012, I was personally present and did see him sign and execute the foregoing assignment; and, that he did acknowledge to me that he executed the same as his free act and deed for the uses and purposes therein set forth.

Vadim Isayev
Witness

75 Sirenevaya st. 33
Novosibirsk 630058
Russia

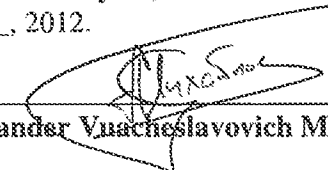
Post Office Address

Svetlana Berdyugina
Witness

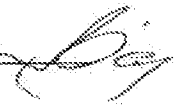
41/5-217, Vysotskogo str.
Novosibirsk, 630133
Russia

Post Office Address

IN WITNESS WHEREOF I, Alexander Vuacheslavovich Mikhaylov, have hereunto set my hand and seal this 27 day of July, 2012.


Alexander Vuacheslavovich Mikhaylov

BE IT KNOWN that Alexander Vuacheslavovich Mikhaylov is to me known to be the individual described in the foregoing assignment, that on this 27 day of July, 2012, I was personally present and did see him sign and execute the foregoing assignment; and, that he did acknowledge to me that he executed the same as his free act and deed for the uses and purposes therein set forth.

ALEXEY BARANOV 

Witness

75, ROYAL ABBEY RISE N.W.

CALGARY, AB T3G4Y5

CANADA

Post Office Address

Yuri Rodionov 

Witness

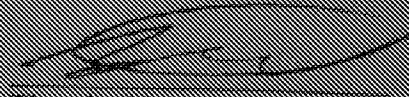
525 3rd Ave SW

Calgary, AB T2P0G4

Canada

Post Office Address

IN WITNESS WHEREOF I, Timothy M. Lesko, have hereunto set my hand and seal this
8 day of August, 2012.




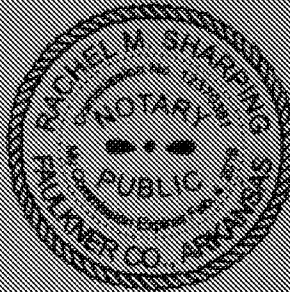
Timothy M. Lesko

STATE OF Arkansas

COUNTY OF Faulkner

BEFORE ME this 8th day of August, 2012, personally appeared Timothy M. Lesko, to me known to be the person who is described in and who executed the foregoing assignment instrument and acknowledged to me that he executed the same of his own free will for the purpose therein expressed.

Seal



Notary Public

IN WITNESS WHEREOF I, **J. Ernest Brown**, have hereunto set my hand and seal this
6th day of August, 2012.




J. Ernest Brown

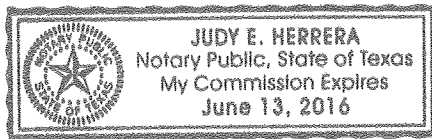
STATE OF TX
COUNTY OF Ft. Bend

BEFORE ME this 6th day of August, 2012, personally appeared **J. Ernest Brown**, to me known to be the person who is described in and who executed the foregoing assignment instrument and acknowledged to me that he executed the same of his own free will for the purpose therein expressed.


Seal



Notary Public




IN WITNESS WHEREOF I, **Dean M. Willberg**, have hereunto set my hand and seal this
6 day of August, 2012.



Dean M. Willberg

BE IT KNOWN that **Dean M. Willberg** is to me known to be the individual described in the foregoing assignment, that on this 6 day of August, 2012, I was personally present and did see him sign and execute the foregoing assignment; and, that he did acknowledge to me that he executed the same as his free act and deed for the uses and purposes therein set forth.




Witness

Julia E. Cassel

1935 S. Fremont Dr.

Salt Lake City, UT

84104
Post Office Address



Witness

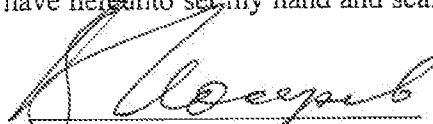
Maxim A. Cherlov

1935 S. Fremont Dr.

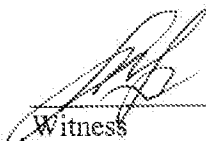
Salt Lake City, UT

84104
Post Office Address

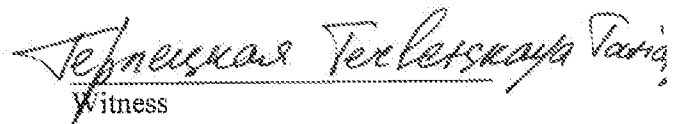
IN WITNESS WHEREOF I, **Ivan Vitalievich Kosarev**, have hereunto set my hand and seal this
14th day of August, 2012.


 Ivan Vitalievich Kosarev

BE IT KNOWN that **Ivan Vitalievich Kosarev** is to me known to be the individual described in the foregoing assignment, that on this 14 day of August, 2012, I was personally present and did see him sign and execute the foregoing assignment; and, that he did acknowledge to me that he executed the same as his free act and deed for the uses and purposes therein set forth.


 Ekaterina Larova
 Witness

Prospect Vernadskogo,
101, build. 3
Moscow, Russia
119526
 Post Office Address

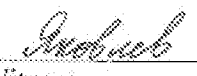

 Teplenskaya Teclerskaya Tania
 Witness

Prospect Vernadskogo, 101,
building 3
Moscow, Russia
119526
 Post Office Address


IN WITNESS WHEREOF I, **Anatoly Vladimirovich Medvedev**, have hereunto set my hand and seal this 23 day of July, 2012.


Anatoly Vladimirovich Medvedev

BE IT KNOWN that **Anatoly Vladimirovich Medvedev** is to me known to be the individual described in the foregoing assignment, that on this 23 day of July, 2012, I was personally present and did see him sign and execute the foregoing assignment; and, that he did acknowledge to me that he executed the same as his free act and deed for the uses and purposes therein set forth.


Witness

Yakovlev Andrey
404070 Volgograd reg
Primorsk, Lenina str, 24
Russia
Post Office Address

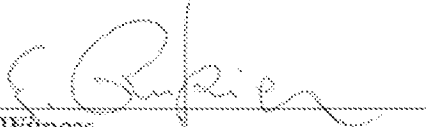

Witness

Svetlana Burdyugina
41/5-277, Vysshlogo Mt.
Novosibirsk, 630133,
Russia
Post Office Address

IN WITNESS WHEREOF I, Jonathan Abbott, have hereunto set my hand and seal this
27 day of July, 2012.


Jonathan Abbott

BE IT KNOWN that Jonathan Abbott is to me known to be the individual described in the foregoing assignment, that on this 27 day of July, 2012, I was personally present and did see him sign and execute the foregoing assignment; and, that he did acknowledge to me that he executed the same as his free act and deed for the uses and purposes therein set forth.


Witness

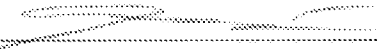
Gunther Rutzinger

Po Box 3107

ABU DHABI

UAE

Post Office Address


Witness

Dni Haryanti

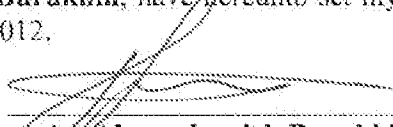
Po Box 9020

ABU DHABI

UAE

Post Office Address

IN WITNESS WHEREOF I, **Alexander Alexandrovich Burukhin**, have hereunto set my hand and seal this 25 day of July, 2012.


Alexander Alexandrovich Burukhin

BE IT KNOWN that **Alexander Alexandrovich Burukhin** is to me known to be the individual described in the foregoing assignment, that on this 25 day of July, 2012, I was personally present and did see him sign and execute the foregoing assignment; and, that he did acknowledge to me that he executed the same as his free act and deed for the uses and purposes therein set forth.



Witness

Kalinin Sergey

Lesoselchaya, 5-352

Russia Novosibirsk, 630060

Post Office Address


Witness

Svetlana Berdyuzina

41/5-217, Vyetskogo str,

Novosibirsk 630060,

Russia

Post Office Address

Schedule A
"COMPANIES"

SCHLUMBERGER TECHNOLOGY CORPORATION

Corporation of: United States of America

Located at: 300 Schlumberger Drive, Sugar Land, Texas 77478 U.S.A.

Assignee for applications in: United States of America

SCHLUMBERGER CANADA LIMITED

Corporation of: Canada

Located at: 525-3rd Avenue S.W., Calgary, Alberta, Canada T2P 0G4

Assignee for applications in: Canada

SERVICES PETROLIERS SCHLUMBERGER

Corporation of: France

Located at: 42 rue Saint Dominique, 75007 Paris, France

Assignee for applications in: France

SCHLUMBERGER HOLDINGS LIMITED

Corporation of: British Virgin Islands

Located at: P.O. Box 71, Craigmuir Chambers, Road Town, 1110 Tortola, British Virgin Islands

Assignee for applications in: Japan, The Netherlands, United Kingdom

SCHLUMBERGER TECHNOLOGY B.V.

Corporation of: the Netherlands

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