

# PATENT ASSIGNMENT

Electronic Version v1.1

Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT										
NATURE OF CONVEYANCE:	ASSIGNMENT										
<b>CONVEYING PARTY DATA</b>											
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 70%;">Name</th> <th style="width: 30%;">Execution Date</th> </tr> </thead> <tbody> <tr> <td>THOMAS D. BARBER</td> <td>08/27/2010</td> </tr> <tr> <td>BARBARA I. ANDERSON</td> <td>06/24/2010</td> </tr> <tr> <td>REZA TAHERIAN</td> <td>06/21/2010</td> </tr> <tr> <td>MARTIN G. LULING</td> <td>08/27/2010</td> </tr> </tbody> </table>		Name	Execution Date	THOMAS D. BARBER	08/27/2010	BARBARA I. ANDERSON	06/24/2010	REZA TAHERIAN	06/21/2010	MARTIN G. LULING	08/27/2010
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<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;">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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<b>PROPERTY NUMBERS Total: 1</b>											
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<b>CORRESPONDENCE DATA</b>											
<p>Fax Number: (281)285-8821</p> <p><i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Phone: 281-285-8500</p> <p>Email: prahmatdoost@slb.com</p> <p>Correspondent Name: SCHLUMBERGER OILFIELD SERVICES</p> <p>Address Line 1: 200 GILLINGHAM LANE</p> <p>Address Line 2: MD 200-9</p> <p>Address Line 4: SUGAR LAND, TEXAS 77478</p>											
ATTORNEY DOCKET NUMBER:	20.3151										
NAME OF SUBMITTER:	Darla Fonseca										
Total Attachments: 7											

CH \$40.00 12817930

**501313992**

**PATENT**  
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## ASSIGNMENT

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

**Thomas D. Barber**, citizen of the U.S.A., whose post office address is 6324 Westchester, Houston, Texas 77005 USA

**Barbara I. Anderson**, citizen of the U.S.A., whose post office address is 89 Stony Hill Road, Brookfield, Connecticut 06804 USA

**Reza Taherian**, citizen of the U.S.A., whose post office address is 2950 Jenny Drive, Sugar Land, Texas 77479 USA

**Martin G. Luling**, citizen of Germany, whose post office address is 26 Rue Cardinet, 75017 Paris France

Has/have invented certain new and useful improvements in

### **METHOD FOR DETERMINING SPATIAL DISTRIBUTION OF FLUID INJECTED INTO SUBSURFACE ROCK FORMATIONS**

as described and set forth in an application for Letters Patent of the United States of America, filed on the 17<sup>TH</sup> day of June, 2010 (20.3151).

WHEREAS each of the undersigned persons warrants that no person other than these undersigned persons are inventors of the above-described invention;

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.

## ASSIGNMENT

### SCHEDULE A "COMPANIES"

#### *SCHLUMBERGER CANADA LIMITED*

Corporation of: Canada

Located at: 525-3<sup>rd</sup> Avenue S.W., Calgary, Alberta, CA T2P 0G4

Assignee for applications in: Canada

#### *SCHLUMBERGER TECHNOLOGY CORPORATION*

Corporation of: USA

Located at: 300 Schlumberger Drive, Sugar Land, TX 77478 US

Assignee for applications in: USA

#### *SERVICES PETROLIERS SCHLUMBERGER*

Corporation of: France

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

Assignee for applications in: France

#### *SCHLUMBERGER HOLDINGS LIMITED*

Corporation of: British Virgin Islands

Located at: PO Box 71, Craigmuir Chambers, Road Town, Tortola, BVI

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

#### *SCHLUMBERGER TECHNOLOGY B.V.*

Corporation of: the Netherlands

Located at: Parkstraat 83-89, 2514 JG The Hague, The Netherlands

Assignee for applications in: Albania, Argentina, Australia, Azarbaijan, Brunei, Bulgaria, Colombia, Czech Republic, Denmark, Faroe Islands, Germany, Greece, Hungary, Indonesia, Ireland, Israel, Italy, Kazakhstan, Korea, Kuwait, Lithuania, Malaysia, Mexico, New Zealand, Norway, Oman, Pakistan, Poland, Qatar, Romania, Russia, Slovakia, Slovenia, South Africa, Thailand, Trinidad, Tunisia, Turkey, Turkmenistan, Ukraine, Uzbekistan, Venezuela

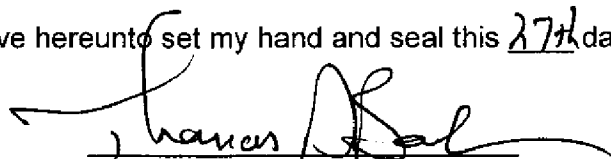
#### *PRAD RESEARCH AND DEVELOPMENT LIMITED*

Corporation of: British Virgin Islands

Located at: PO Box 71, Craigmuir Chambers, Road Town, Tortola, BVI

Assignee for applications in: the GCC Patent Office and Countries not Otherwise Listed

IN WITNESS WHEREOF, I, **Thomas D. Barber**, have hereunto set my hand and seal this 27<sup>th</sup> day of August, 2010.

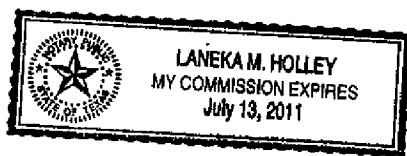
  
(signature of Inventor)

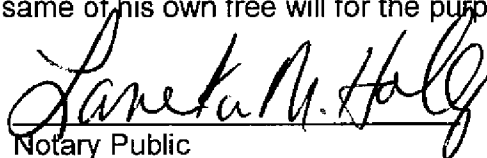
(L. S.)

State of Texas

County of Fort Bend

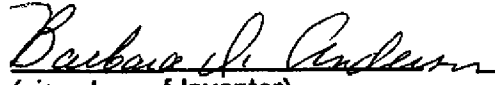
BEFORE ME this 27 day of August, 2010, personally appeared **Thomas D. Barber**, to me known to be the person who is described in and who executed the foregoing assignment instrument and acknowledged to me that he executed the same of his own free will for the purpose therein expressed.



  
Notary Public

SEAL

IN WITNESS WHEREOF, I, **Barbara I. Anderson**, have hereunto set my hand and seal this 24th day of June, 2010.

  
(signature of Inventor)  
Barbara I. Anderson


(L. S.)

State of CONNECTICUT )

ss: Newtown

County of FAIRFIELD )

BEFORE ME this 24th day of June, 2010, personally appeared **Barbara I. Anderson**, 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.

  
Notary Public  
Linda A. Bailey  
Commission Expires: 5/31/2015

SEAL

IN WITNESS WHEREOF, I, **Reza Taherian**, have hereunto set my hand and seal this 21 day of June, 2010.

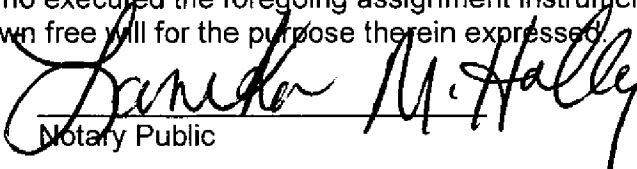
  
(signature of Inventor)

(L. S.)

State of Texas

County of Fort Bend

BEFORE ME this 21 day of June, 2010, personally appeared **Reza Taherian**, 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.

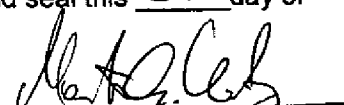
  
Notary Public

SEAL





IN WITNESS WHEREOF, I, **Martin G. Luling**, have hereunto set my hand and seal this 27 day of August, 2010.



(signature of Inventor)

WITNESSED:

BE IT KNOWN that **Martin G. Luling** is to me known to be the individual described in the foregoing assignment, that on this 27 day of August, 2010, 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

DELGADO Carmen

Résidence Le Clos Audouin

91130 Gif/Yvette

France

Post Office Address



Witness

PERONET Rebecca

09 rue Danton

27140 Gisors

France

Post Office Address