

## 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>Rod Shampine</td> <td>05/22/2012</td> </tr> <tr> <td>Edward Leugemors</td> <td>05/22/2012</td> </tr> <tr> <td>Timothy Lesko</td> <td>05/22/2012</td> </tr> </tbody> </table>  |                                     | Name          | Execution Date                      | Rod Shampine        | 05/22/2012             | Edward Leugemors | 05/22/2012 | Timothy Lesko  | 05/22/2012 |              |       |
| Name  | Execution Date                      |               |                                     |                     |                        |                  |            |                |            |              |       |
| Rod Shampine  | 05/22/2012                          |               |                                     |                     |                        |                  |            |                |            |              |       |
| Edward Leugemors  | 05/22/2012                          |               |                                     |                     |                        |                  |            |                |            |              |       |
| Timothy Lesko   | 05/22/2012                          |               |                                     |                     |                        |                  |            |                |            |              |       |
| 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 |
| Name:   | Schlumberger Technology Corporation |               |                                     |                     |                        |                  |            |                |            |              |       |
| Street Address:   | 300 Schlumberger Drive              |               |                                     |                     |                        |                  |            |                |            |              |       |
| City:   | Sugar Land                          |               |                                     |                     |                        |                  |            |                |            |              |       |
| State/Country:  | TEXAS                               |               |                                     |                     |                        |                  |            |                |            |              |       |
| Postal Code:  | 77478                               |               |                                     |                     |                        |                  |            |                |            |              |       |
| 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>13415025</td> </tr> </tbody> </table>   |                                     | Property Type | Number                              | Application Number: | 13415025               |                  |            |                |            |              |       |
| Property Type   | Number                              |               |                                     |                     |                        |                  |            |                |            |              |       |
| Application Number:   | 13415025                            |               |                                     |                     |                        |                  |            |                |            |              |       |
| CORRESPONDENCE DATA   |                                     |               |                                     |                     |                        |                  |            |                |            |              |       |
| <p>Fax Number: (713)689-6372</p> <p>Phone: 81427595321</p> <p>Email: kawashima1@exchange.slb.com</p> <p><i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i></p> <p>Correspondent Name: Schlumberger - COE</p> <p>Address Line 1: WesternGeco 10001 Richmond Ave.</p> <p>Address Line 2: Room 3028</p> <p>Address Line 4: Houston, TEXAS 77042</p> |                                     |               |                                     |                     |                        |                  |            |                |            |              |       |
| ATTORNEY DOCKET NUMBER:   | IS11.1116US ASSIGNMENT              |               |                                     |                     |                        |                  |            |                |            |              |       |
| NAME OF SUBMITTER:  | Setsuko Kawashima                   |               |                                     |                     |                        |                  |            |                |            |              |       |
| Total Attachments: 6  |                                     |               |                                     |                     |                        |                  |            |                |            |              |       |

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## Assignment

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

**Rod Shampine**, a citizen of the United States of America, residing at 703 E. 24th Street, Houston, Texas 77008, U.S.A.;

**Edward Leugemors**, a citizen of the United States of America, residing at 22719 Piper Rd, Needville, Texas 77461, U.S.A.;

and

**Timothy Lesko**, a citizen of the United States of America, residing at 2530 Windfall Lane Sugar Land, Texas 77479, U.S.A.;

Has/have invented certain new and useful improvements in

### **SYSTEM AND METHOD FOR DELIVERING TREATMENT FLUID**

as described and set forth in an application for Letters Patent of the United States of America, filed with the United States Patent and Trademark Office on March 08, 2012, Serial No. 13/415025, (Docket No.IS11.1116-US-NP). This assignment is effective as of March 08, 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,

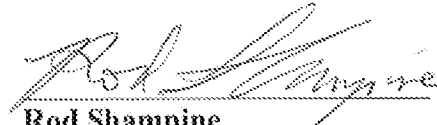
TO HAVE AND TO HOLD the same to the full end of the term or terms for which any and all such United States and foreign patents and grants may be issued on said invention, inventions or improvements.

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.

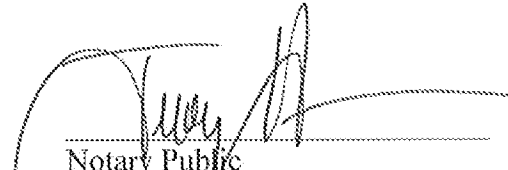
IN WITNESS WHEREOF I, **Rod Shampine**, have hereunto set my hand and seal this 22nd day of May, 2012.

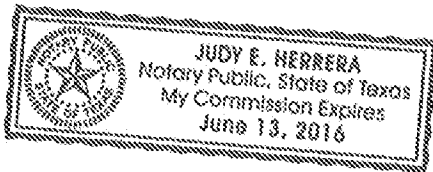
  
Rod Shampine

STATE OF Texas  
COUNTY OF Ft. Bend

BEFORE ME this 22 day of May, 2012, personally appeared **Rod Shampine**, 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, **Edward Leugemors**, have hereunto set my hand and seal this  
22<sup>nd</sup> day of May, 2012.

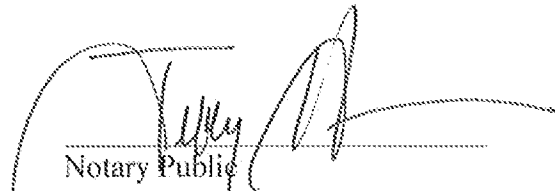
  
Edward Leugemors

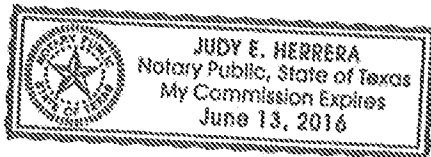
STATE OF Texas

COUNTY OF Fort Bend

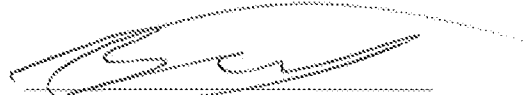
BEFORE ME this 22 day of May, 2012, personally appeared **Edward Leugemors**, to me known to be the person who is described in and who executed the foregoing assignment instrument and acknowledged to me that he executed the same of his own free will for the purpose therein expressed.

Seal

  
Notary Public



IN WITNESS WHEREOF I, **Timothy Lesko**, have hereunto set my hand and seal this  
22 day of MAY, 2012.

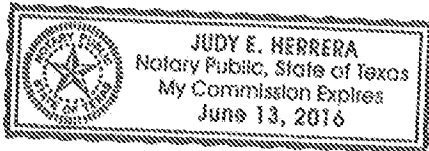
  
Timothy Lesko

STATE OF Texas  
COUNTY OF Ft. Bend

BEFORE ME this 22 day of May, 2012, personally appeared **Timothy 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



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: 525-3<sup>rd</sup> 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, Netherlands Antilles, United Kingdom, Saudi Arabia

**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, Azerbaijan, Brunei, Bulgaria, Chad, Colombia, Czech Republic, Denmark, Equatorial Guinea, Faroe Islands, Germany, Greece, Hungary, Indonesia, Ireland, Israel, Italy, Kazakhstan, Korea, Kuwait, Lithuania, Malaysia, Mexico, Myanmar, New Zealand, Norway, Oman, Pakistan, Poland, Qatar, Romania, Russia, Slovakia, Slovenia, South Africa, Thailand, Trinidad, Tunisia, Turkey, Turkmenistan, Uzbekistan, and Venezuela

**PRAD RESEARCH AND DEVELOPMENT 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: Eurasia, Gulf Cooperation Council, and Countries not otherwise listed.