

PATENT ASSIGNMENT

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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>IAN BRADFORD</td> <td>12/03/2012</td> </tr> <tr> <td>BASSEM KHADHRAOUI</td> <td>12/10/2012</td> </tr> <tr> <td>PIERRE TARDIF D'HAMONVILLE</td> <td>12/03/2012</td> </tr> </tbody> </table>		Name	Execution Date	IAN BRADFORD	12/03/2012	BASSEM KHADHRAOUI	12/10/2012	PIERRE TARDIF D'HAMONVILLE	12/03/2012		
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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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Application Number:	13517229										
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CORRESPONDENCE DATA											
Fax Number:	7136892219										
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>											
Phone:	7136892273										
Email:	qmarques@slb.com										
Correspondent Name:	SCHLUMBERGER TECHNOLOGY CORPORATION										
Address Line 1:	10001 Richmond Avenue										
Address Line 2:	IP Administration Center of Excellence										
Address Line 4:	HOUSTON, TEXAS 77042										
ATTORNEY DOCKET NUMBER:	57.0872-US-PSP/-US-PCT										
NAME OF SUBMITTER:	Querlyn Marques										
Total Attachments: 6											

CH \$80.00 13517229

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Assignment

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

Ian Bradford, a citizen of the United Kingdom, residing at 49 Queen Edith's Way, Cambridge, CB1 8PJ, UK;

Bassem Khadhraoui, a citizen of France, residing at The Studio, Sandy Lane, Cambridge, CB4 1HZ, UK; and

Pierre Tardif D'Hamonville, a citizen of France, residing at Midtgata 21, Stavanger, 4008, NO;

Has/have invented certain new and useful improvements in

SYSTEM AND METHOD FOR MICROSEISMIC ANALYSIS

as described and set forth in a United States Provisional Patent Application filed on December 21, 2009 under Serial Number 61/288640, and an application for Letters Patent of the United States of America, filed with the United States Patent and Trademark Office on **June 19, 2012**, Serial No. **13/517229** (Docket No. **57.0872-US-PCT**). **This assignment is effective as of December 21, 2009.**

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.

WITNESSED:

IN WITNESS WHEREOF I, **Ian Bradford**, have hereunto set my hand and seal this 3rd day of December, 2012.

I. D. R. Bradford.
Ian Bradford

WITNESSED:

BE IT KNOWN, that **Ian Bradford** is known to us to be the individual described in this assignment, that on this 3 day of December, 2012, we were personally present and did see him/her sign and execute this assignment and that he/she acknowledged to us that he/she executed the same as his/her free act and deed for the uses and purposes therein set forth.

[Signature]
First Witness (Signature)

Julia Doretti
75, TOSSE LANE
BURNELL
CAMBRIDGE
CAMBRIDGE, UK
Post Office Address CB25 0NE

Ludmila Jones
Second Witness (Signature)

Ludmila Jones
23 The Thatchers, St. Michael's Mead
B. Stortford, Herts, CM23 4FL, U.K.
Post Office Address

WITNESSED:

IN WITNESS WHEREOF I, **Bassem Khadhraoui**, have hereunto set my hand and seal this
10th day of December, 2012.



Bassem Khadhraoui

WITNESSED:

BE IT KNOWN, that **Bassem Khadhraoui** is known to us to be the individual described in this assignment, that on this 10th day of December, 2012, we were personally present and did see him/her sign and execute this assignment and that he/she acknowledged to us that he/she executed the same as his/her free act and deed for the uses and purposes therein set forth.

MONTGOLFIER km

First Witness (Signature)

DESSET Nicole

Second Witness (Signature)

km

[Signature]

2 Ave des Freres
Montgolfier 64140 Lons
FRANCE

Post Office Address

2 Ave des Freres Montgolfier
64140 LONS
FRANCE

Post Office Address

WITNESSED:


IN WITNESS WHEREOF I, **Pierre Tardif D'Hamonville**, have hereunto set my hand and seal
this 3rd day of December, 2012.




Pierre Tardif D'Hamonville

WITNESSED:

BE IT KNOWN, that **Pierre Tardif D'Hamonville** is known to us to be the
individual described in this assignment, that on this 3rd day of December 2012,
2012, we were personally present and did see him/her sign and execute this assignment and that
he/she acknowledged to us that he/she executed the same as his/her free act and deed for the uses
and purposes therein set forth.



First Witness (Signature)



Second Witness (Signature)

Sundeidgata 31

Husbergbakken 46

4012 Staranger

4032 Staranger

Norway

Post Office Address

Norway

Post Office Address

Schedule A
"COMPANIES"

SCHLUMBERGER TECHNOLOGY CORPORATION

Corporation of: United States of America
Located at: 300 Schlumberger Drive, Sugar Land, TX 77478
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
Located at: Parkstraat 83-89, 2514 JG The Hague, The Netherlands
Assignee for applications in: Albania, Argentina, Australia, Austria, Azerbaijan, Brunei, Bulgaria, Chile, Colombia, Croatia, Cypress, Czech Republic, Denmark, Egypt, Equatorial Guinea, Falkland Islands, Faroe Islands, Georgia, Germany, Greece, Greenland, Hungary, Indonesia, Ireland, Israel, Italy, Kazakhstan, Kenya, Korea, Kuwait, Lithuania, Madagascar, Malaysia, Mexico, New Zealand, Norway, Oman, Pakistan, Poland, Qatar, Romania, Russia, Saudi Arabia, Slovakia, Slovenia, South Africa, Suriname, Switzerland, Tanzania, Thailand, Trinidad, Tunisia, Turkey, Turkmenistan, Uganda, Ukraine, Uruguay, Uzbekistan, 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