

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>Richard T. Coates</td><td>06/07/2010</td></tr><tr><td>Douglas E. Miller</td><td>06/07/2010</td></tr><tr><td>Arthur H. Hartog</td><td>06/08/2010</td></tr><tr><td>Colin A. Wilson</td><td>06/07/2010</td></tr><tr><td>Dominic Brady</td><td>07/22/2010</td></tr><tr><td>Henry Menkiti</td><td>06/10/2010</td></tr><tr><td>Francois M. Auzerais</td><td>06/07/2010</td></tr><tr><td>Ian D. R. Bradford</td><td>06/09/2010</td></tr></tbody></table>		Name	Execution Date	Richard T. Coates	06/07/2010	Douglas E. Miller	06/07/2010	Arthur H. Hartog	06/08/2010	Colin A. Wilson	06/07/2010	Dominic Brady	07/22/2010	Henry Menkiti	06/10/2010	Francois M. Auzerais	06/07/2010	Ian D. R. Bradford	06/09/2010
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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																			
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CORRESPONDENCE DATA																			
Fax Number: (281)285-5537 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>																			
Phone: 281-285-6470																			
Email: VSOLIS2@SLB.COM																			
Correspondent Name: SCHLUMBERGER RESERVOIR COMPLETIONS																			
Address Line 1: 14910 AIRLINE ROAD																			
Address Line 4: ROSHARON, TEXAS 77583																			
ATTORNEY DOCKET NUMBER:	101.0273																		

PATENT

501245832

REEL: 024752 FRAME: 0637

CH \$40.00 12788270

NAME OF SUBMITTER:

Brandon S. Clark

Total Attachments: 11

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Assignment

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

Richard T. Coates, a citizen of the United Kingdom, residing at 6 Weymouth Way, Middlebury, CT 06762;

Douglas E. Miller, a citizen of the United States of America, residing at 224 Marlborough #52, Boston, MA 02116;

Arthur H. Hartog, a citizen of Canada, residing at Meadow Cottage, Martyr Worthy, Winchester SO211DZ, UK;

Colin A. Wilson, a citizen of the United Kingdom, residing at 1 Collingwood Avenue, Tolworth, Surrey, KT5 9PT, UK;

Dominic Brady, a citizen of the United Kingdom, residing at 87 Firgrove Road, Freemantle, Southampton SO15 3ET, UK;

Henry Menkiti, a citizen of Nigeria, residing at 39 Walpole Road, Strawberry Hill, Twickenham TW2 5SN, UK;

Francois M. Auzerai, a citizen of the United States of America, residing at 790 Boylston Street, Apt. 17J, Boston, MA 02199;

and

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

Has/have invented certain new and useful improvements in

DETECTION OF SEISMIC SIGNALS USING FIBER OPTIC DISTRIBUTED SENSORS

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 May 26, 2010, Serial No. 12/788270, (Docket No. 101.0273). **This assignment is effective as of May 26, 2010.**

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, **Richard T. Coates**, have hereunto set my hand and seal this
7th day of JUNE, 2010.

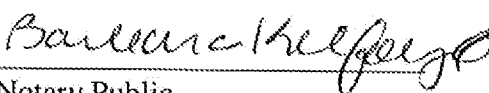


Richard T. Coates

STATE OF Massachusetts
COUNTY OF Middlesex

BEFORE ME this 7th day of June, 2010, personally appeared **Richard T. Coates**, 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

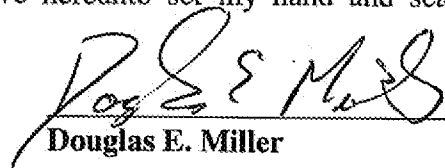


Notary Public



Barbara Kilfoyle
Notary Public
Commonwealth of Massachusetts
My Commission Expires
June 20, 2014

IN WITNESS WHEREOF I, **Douglas E. Miller**, have hereunto set my hand and seal this
7th day of June, 2010.

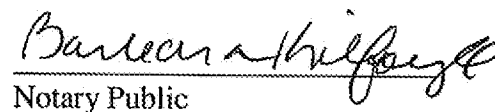

Douglas E. Miller

STATE OF Massachusetts

COUNTY OF Middlesex

BEFORE ME this 7th day of June, 2010, personally appeared **Douglas E. Miller**, 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



Barbara Kilfoyle
Notary Public
Commonwealth of Massachusetts
My Commission Expires
June 20, 2014

IN WITNESS WHEREOF I, **Arthur H. Hartog**, have hereunto set my hand and seal this
8th day of June, 2010.

Arthur H. Hartog
Arthur H. Hartog

BE IT KNOWN that **Arthur H. Hartog** is to me known to be the individual described in the foregoing assignment, that on this 8th day of JUNE, 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.

I. Davis
 Witness

95 CAMPBELL ROAD

BURTON,

CHRISTCHURCH,

DORSET, BH23 7LY

Post Office Address

Knights
 Witness

16, CYGNET COURT

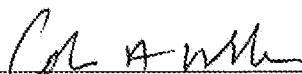
FAREHAM

HAMPSHIRE

PO16 8AU

Post Office Address

IN WITNESS WHEREOF I, **Colin A. Wilson**, have hereunto set my hand and seal this
7th day of JUNE 2010, _____.


 Colin A. Wilson

BE IT KNOWN that **Colin A. Wilson** is to me known to be the individual described in the foregoing assignment, that on this 7th day of June, 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.

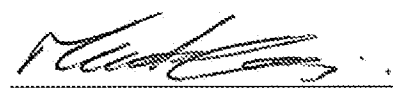

 Witness

26 GROVENDEN RD

Winchester

SO22 5JY

Post Office Address


 Witness

25 STREAMLEAZE

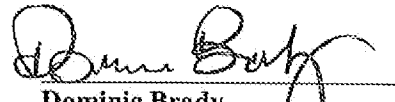
TITCHFIELD COMMON

FAREHAM


PO14 4NP


Post Office Address

IN WITNESS WHEREOF I, **Dominic Brady**, have hereunto set my hand and seal this
22 day of July, 2010.

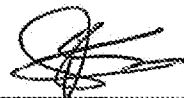

 Dominic Brady

BE IT KNOWN that **Dominic Brady** is to me known to be the individual described in the foregoing assignment, that on this 22 day of July, 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 P. STOPFORD
105 IMPERIAL AVENUE
SOUTHAMPTON
HANTS.
SO15 8PZ.
 Post Office Address

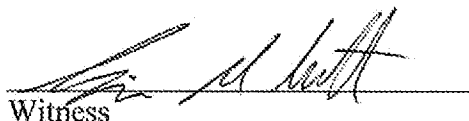

 Witness MATTHEW CRAIG.
25 STRANGLAZE
TITCHFIELD COMMON
FARBLHAM
HAMPSHIRE PO14 4NP.
 Post Office Address

IN WITNESS WHEREOF I, **Henry Menkiti**, have hereunto set my hand and seal this
10 day of JUNE, 2010.



Henry Menkiti

BE IT KNOWN that **Henry Menkiti** is to me known to be the individual described in the foregoing assignment, that on this 10 day of JUNE, 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

SIMON WATT

GS IT MANAGER

SCHLUMBERGER HOUSE

GATWICK AIRPORT, RH6 0NZ, U.K.
 Post Office Address

Gulshat Usanova 
 Witness

Gulshat Usanova

DP Product Line Business Analyst

Schlumberger House

Gatwick Airport, RH6 0NZ, U.K.
 Post Office Address

IN WITNESS WHEREOF I, **Francois M. Auzeais**, have hereunto set my hand and seal this

7 day of June 2010, _____.

Francois M. Auzeais

Francois M. Auzeais

STATE OF Massachusetts

COUNTY OF Middlesex

BEFORE ME this 7th day of June, 2010, personally appeared **Francois M. Auzeais**, 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

Barbara Kilfoyle

Notary Public



Barbara Kilfoyle
Notary Public
Commonwealth of Massachusetts
My Commission Expires
June 20, 2014

IN WITNESS WHEREOF I, **Ian Bradford**, have hereunto set my hand and seal this
9TH day of JUNE, 2010.

I. D. R. Bradford,
Ian Bradford

BE IT KNOWN that **Ian Bradford** is to me known to be the individual described in the foregoing assignment, that on this 9TH day of JUNE, 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.

Stuart A. Gahlgan
 Witness

28 WILLOW LANE
GREAT CAMBOURNE
CAMBRIDGESHIRE
CB23 6AA
 Post Office Address

A. Perrett
 Witness A. PERRETT
62 CAMBRIDGE ROAD
IMPINGTON
CAMBS CB24 9NU
UK
 Post Office Address

Schedule A

“COMPANIES”**SCHLUMBERGER TECHNOLOGY CORPORATION**Corporation of: United States of AmericaLocated at: 300 Schlumberger Drive, Sugar Land, Texas 77478 U.S.A.Assignee for applications in: United States of America**SCHLUMBERGER CANADA LIMITED**Corporation of: CanadaLocated at: 525-3rd Avenue S.W., Calgary, Alberta, Canada T2P 0G4Assignee for applications in: Canada**SERVICES PETROLIERS SCHLUMBERGER**Corporation of: FranceLocated at: 42 rue Saint Dominique, 75007 Paris, FranceAssignee for applications in: France**SCHLUMBERGER HOLDINGS LIMITED**Corporation of: British Virgin IslandsLocated at: P.O. Box 71, Craigmuir Chambers, Road Town, 1110 Tortola, British Virgin IslandsAssignee for applications in: Japan, The Netherlands, Netherlands Antilles, United Kingdom, Saudi Arabia**SCHLUMBERGER TECHNOLOGY B.V.**Corporation of: the NetherlandsLocated at: Parkstraat 83-89, 2514 JG The Hague, The NetherlandsAssignee 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 IslandsLocated at: P.O. Box 71, Craigmuir Chambers, Road Town, 1110 Tortola, British Virgin IslandsAssignee for applications in: Eurasia, Gulf Cooperation Council, and Countries not otherwise listed.