

PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
ARTHUR H. HARTOG	10/12/2009
DOUGLAS MILLER	10/28/2009
KAMAL KADER	10/29/2009
GARETH P. LEES	10/12/2009
GRAEME HILTON	10/12/2009
STEPHEN MULLENS	10/12/2009
RECEIVING PARTY DATA	
Name:	SCHLUMBERGER TECHNOLOGY CORPORATION
Street Address:	300 SCHLUMBERGER DRIVE
City:	SUGAR LAND
State/Country:	TEXAS
Postal Code:	77478
PROPERTY NUMBERS Total: 2	
Property Type	Number
Application Number:	61111916
Application Number:	12611952
CORRESPONDENCE DATA	
Fax Number:	(281)285-5537
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>	
Email:	ABrown15@slb.com
Correspondent Name:	SCHLUMBERGER RESERVOIR COMPLETIONS
Address Line 1:	14910 AIRLINE ROAD
Address Line 2:	AUTREY BROWN
Address Line 4:	ROSHARON, TEXAS 77583
ATTORNEY DOCKET NUMBER:	101.0264

CH \$80.00 61111916

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**PATENT
 REEL: 023487 FRAME: 0854**

NAME OF SUBMITTER:

Daryl R. Wright

Total Attachments: 8

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Assignment

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

Arthur H. Hartog, a citizen of Canada, residing at Meadow Cottage, Martyr Worthy, Winchester, Hampshire, SO21 1DZ, United Kingdom;

Douglas Miller, a citizen of the United States of America, residing at 224 Marlborough #52, Boston, Massachusetts, 02216, United States of America;

Kamal Kader, a citizen of France, residing at Akasaka Tower Residence Too of the Hill # 2014,2-17-50 Minato-ku, Akasaka; Tokyo, Japan 107-0052;

Gareth P. Lees, a citizen of the United Kingdom, residing at 44 Benedict Close, Romsey, Southampton, Hampshire, SO51 8PN, United Kingdom;

Graeme Hilton, a citizen of the United Kingdom, residing at 67 Suffolk Avenue, Southampton, Hampshire, SO15 5EF, United Kingdom;

and

Stephen Mullens, a citizen of the United Kingdom, residing at 55 Parkway, Welwyn Garden City, Hertfordshire, AL8 6JF, United Kingdom;

Has/have invented certain new and useful improvements in

DISTRIBUTED ACOUSTIC WAVE DETECTION

as described and set forth in a United States Provisional Patent Application filed on November 6, 2008 under Serial Number 61/111,916 and in an application for Letters Patent of the United States of America, filed with the United States Patent and Trademark Office on November 4, 2009, Serial No. 12/611,952(Docket No. 101.0264); **this assignment is effective as of November 6, 2008.**

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, Arthur H. Hartog, have hereunto set my hand and seal this 12th day of October, 2009.

Arthur H. Hartog
(signature of Inventor)

BE IT KNOWN that Arthur H. Hartog is to me known to be the individual described in the foregoing assignment, that on this 12 day of October, 2009, 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.

STEPHEN MULLENS
S. S. Mullens
Witness

55 PARKWAY
WELWYN GARDEN CITY
HERTFORDSHIRE,
ALBERT, UK
Post Office Address

Matthews Clark
Witness MATTHEWS CLARK.

25 STAMMARE
TITCHFIELD COMMON
FAREHAM
PO14 4NP.
Post Office Address

IN WITNESS WHEREOF I, Douglas Miller, have hereunto set my hand and seal this 28th day of October, 2009.

Douglas Miller
(Signature of Inventor)

BE IT KNOWN that Douglas Miller is to me known to be the individual described in the foregoing assignment, that on this 28 day of October, 2009 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.

Jessica Hernandez
Witness

SDR

One Hampshire St.

Cambridge MA 02139

USA

Post Office Address

Barbara Kilfoyle
Witness

SDR

One Hampshire St.

Cambridge MA 02139

USA

Post Office Address

Barbara Kilfoyle




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

IN WITNESS WHEREOF I, **Kamal Kader**, have hereunto set my hand and seal this 29th day of October, 2009.



(signature of Inventor)

BE IT KNOWN that **Kamal Kader** is to me known to be the individual described in the foregoing assignment, that on this 29th day of October, 2009, 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.



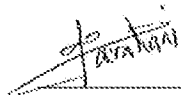
Witness **SHIGERU SATO**

1-15-4

Koyodai Inazji-city

Tokyo, Japan

Post Office Address



Witness **Alireza Farahani**

Kanagawa-ken, Yokohama-shi

Aoba-ku, Shimotoridai 45-1

Emi Residence #209, Japan

227-0054

Post Office Address

Gareth 9/12
12/10/09

IN WITNESS WHEREOF I, ~~Gareth~~ P. Lees, have hereunto set my hand and seal this
12 day of October, 2009.

[Handwritten Signature]

(signature of Inventor)

Gareth 9/12
12/10/09

BE IT KNOWN that ~~Gareth~~ P. Lees is to me known to be the individual described in the
foregoing assignment, that on this 12 day of October, 2009, 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.

[Handwritten Signature]
Witness

13 Winn Rd.
SOUTHAMPTON, HANTS
SO17 1EW

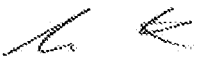
Post Office Address

[Handwritten Signature]
Witness MATTHEW CRAIG

25 STREAMLEAZE
TITCHFIELD COMMON
FARNHAM


PO19 4NP.
Post Office Address

IN WITNESS WHEREOF I, **Graeme Hilton**, have hereunto set my hand and seal this 12 day of October, 2009.



(signature of Inventor)

BE IT KNOWN that **Graeme Hilton** is to me known to be the individual described in the foregoing assignment, that on this 12 day of October, 2009, 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 MATTHEW CRAIG

25 STREAMLEAZE

TITCHFIELD COMMON

FAREHAM

PO14 4NP
Post Office Address



Witness PAUL STAFFORD

105 IMPERIAL AVENUE

SOUTHAMPTON

HAMPSHIRE

SO15 8PZ
Post Office Address

IN WITNESS WHEREOF I, **Stephen Mullens**, have hereunto set my hand and seal this 12 day of OCTOBER, 2009.

S. S. Mullens
(signature of Inventor)

BE IT KNOWN that **Stephen Mullens** is to me known to be the individual described in the foregoing assignment, that on this 12 day of OCTOBER, 2009, 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.

Matthew Cairns
Witness MATTHEW CAIRNS

Sharon Lyeon
Witness

25 STREAM LEAZE
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13 W. INN RD.
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Post Office Address