

**PATENT ASSIGNMENT**

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<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
Andrew Strong	06/15/2011
Gareth Lees	05/04/2011
Roger Hampson	06/15/2011
Kevin William	06/15/2011
Arthur Hartog	05/27/2011
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	Schlumberger Technology Corporation
<b>Street Address:</b>	300 Schlumberger Drive
<b>City:</b>	Sugar Land
<b>State/Country:</b>	TEXAS
<b>Postal Code:</b>	77478
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	13119231
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(281)285-8821
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>	
<b>Email:</b>	kmarquez@slb.com
<b>Correspondent Name:</b>	Schlumberger Technology Corporation
<b>Address Line 1:</b>	200 Gillingham Lane, MD200-2
<b>Address Line 2:</b>	Office of IP Counsel
<b>Address Line 4:</b>	Sugar Land, TEXAS 77478
<b>ATTORNEY DOCKET NUMBER:</b>	124.0002
<b>NAME OF SUBMITTER:</b>	Myron Stout
Total Attachments: 8	

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**PATENT  
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## A S S I G N M E N T

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

**Andrew STRONG**, 21 Meon Road, Romsey, Hampshire, S051 5PU, UK  
**Gareth LEES**, 44 Benedict Close, Romsey, Southampton, Hampshire So51 8pn, UK  
**Roger HAMPSON**, 33 Chivers Drive, Wokingham, Berkshire, RG404 EW, UK  
**Kevin WILLIAMS**, 3, Maypole Villas Allbrook, Eastleigh, So50 4ln, UK  
**Arthur HARTOG**, Meadow Cottage, Martyr Worthy, Winchester SO21 1DZ, UK

Has/have invented certain new and useful improvements in

**REDUNDANT OPTICAL FIBER SYSTEM AND METHOD FOR REMOTELY MONITORING  
 THE CONDITION OF A PIPELINE**

as described and set forth in an application for Letters Patent of the United States of America, filed by me on **March 16<sup>th</sup>, 2011**.

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.

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: 110 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 83-89m 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

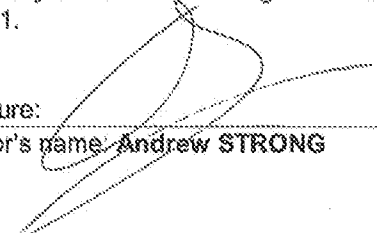
*PRAD RESEARCH AND DEVELOPMENT LIMITED*

Corporation of: British Virgin Islands

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

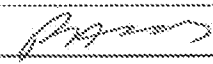

Assignee for applications in: Countries not Otherwise Listed

IN TESTIMONY WHEREOF, I Andrew STRONG have duly executed this Assignment on this 15th day of JUNE, 2011.

Signature:   
 Inventor's name: Andrew STRONG

WITNESSED:

BEFORE ME this 15th day of JUNE, 2011, personally appeared, Andrew STRONG, 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.

Witness (Signature) 	Witness (Signature) 
Name M.A.P. Joubert	Name M.S. FOSTER
Address 6, SANDWICH ROAD	Address 41 TUESDALE ROAD
WORTHING, WEST SUSSEX	MUSELIGG, BOURNEWATER
BN1 5NT	BN1 3LW

IN TESTIMONY WHEREOF, I **Gareth LEES** have duly executed this Assignment on this 4th day of May, 2011.

Signature: *Gareth Lees*

Inventor's name: **Gareth LEES**

WITNESSED:

BEFORE ME this 4th day of May, 2011, personally appeared, **Gareth LEES**, 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.

Witness (Signature) <u><i>Dominic Brady</i></u>	Witness (Signature) <u><i>Matthew Craig</i></u>
Name <u>DOMINIC BRADY</u>	Name <u>MATTHEW CRAIG</u>
Address <u>26 GROVELANDS ROAD</u>	Address <u>25 STRAMLEAZE</u>
<u>WINCHESTER, SO22 5JY</u>	<u>TITCHFIELD COMMON,</u>
	<u>FAREHAM, PO14 4NP</u>

IN TESTIMONY WHEREOF, I **Roger HAMPSON** have duly executed this Assignment on this 15<sup>th</sup> day of JUNE, 2011.

Signatures: *R. Hampson*  
 Inventor's name: **Roger HAMPSON**

WITNESSED:

BEFORE ME this 15<sup>th</sup> day of JUNE, 2011, personally appeared, **Roger HAMPSON**, 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.

Witness (Signature) <u><i>Martin Woodbridge</i></u>	Witness (Signature) <u><i>Jack Emery</i></u>
Name <u>MARTIN WOODBRIDGE</u>	Name <u>Jack Emery</u>
Address <u>11 HOME CLOSE</u>	Address <u>16 St. Mary Close</u>
<u>WIDITON, ABERDEEN</u>	<u>Healey on Thames</u>
<u>OXON</u>	<u>RG9 1RD</u>



IN TESTIMONY WHEREOF, I Kevin WILLIAMS have duly executed this Assignment on this 15<sup>th</sup> day of JUNE, 2011.

Signature: [Signature]  
Inventor's name Kevin WILLIAMS

WITNESSED:

BEFORE ME this 15<sup>th</sup> day of JUNE, 2011, personally appeared, Kevin WILLIAMS, 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.

Witness (Signature) <u>[Signature]</u>	Witness (Signature) <u>[Signature]</u>
Name <u>ALASTAIR PICKBURN</u>	Name <u>Mark Gold</u>
Address <u>117A EVERTON ROAD</u>	Address <u>16 HURLOW CLOSE</u>
<u>WOSDLE, LYMINGTON</u>	<u>SOUTHAMPTON</u>
<u>SO41 0HA.</u>	<u>SO19 9TX</u>

IN TESTIMONY WHEREOF, I **Arthur HARTOG** have duly executed this Assignment on this 27<sup>th</sup> day of May, 2011.

Signature : *Arthur Hartog*  
 Inventor's name **Arthur HARTOG**

WITNESSED:

BEFORE ME this 27 day of May, 2011, personally appeared, **Arthur HARTOG**, 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.

Witness (Signature) <u><i>Eric Powell</i></u>	Witness (Signature) <u><i>James Lindle</i></u>
Name <u>ERIC POWELL</u>	Name <u>JAMES LINDLE</u>
Address <u>68 Fog Down Meads</u>	Address <u>5 ROMAN QUAY,</u>
<u>Winchester</u>	<u>FORDINGBLOSE</u>