

## 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>Dominic Brady</td> <td>08/29/2012</td> </tr> <tr> <td>Arthur H. Hartog</td> <td>08/29/2012</td> </tr> </tbody> </table>		Name	Execution Date	Dominic Brady	08/29/2012	Arthur H. Hartog	08/29/2012
Name	Execution Date						
Dominic Brady	08/29/2012						
Arthur H. Hartog	08/29/2012						
RECEIVING PARTY DATA							
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>13528395</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13528395		
Property Type	Number						
Application Number:	13528395						
CORRESPONDENCE DATA							
Fax Number:	7136892219						
Phone:	719-689-6265						
Email:	lgoldsmith@slb.com						
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i>							
Correspondent Name:	SCHLUMBERGER TECHNOLOGY CORPORATION						
Address Line 1:	10001 Richmond Avenue						
Address Line 2:	IP Center of Excellence						
Address Line 4:	Houston, TEXAS 77042						
ATTORNEY DOCKET NUMBER:	IS10.0518-US-NP						
NAME OF SUBMITTER:	Leslie Goldsmith						
Total Attachments: 5 source=IS100518USNP_20120912_Complete-Assignment#page1.tif source=IS100518USNP_20120912_Complete-Assignment#page2.tif source=IS100518USNP_20120912_Complete-Assignment#page3.tif source=IS100518USNP_20120912_Complete-Assignment#page4.tif source=IS100518USNP_20120912_Complete-Assignment#page5.tif							

CH \$40.00 13528395

**Assignment**

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

**Dominic Brady**, a citizen of the United Kingdom, residing at 26 Grovelands Road, Winchester, SO22 5JY, United Kingdom; and

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

Has/have invented certain new and useful improvements in

**Thermal Optical Fluid Composition Detection**

as described and set forth an application for Letters Patent of the United States of America, filed with the United States Patent and Trademark Office on 20 Jun 2012, Serial No. 13/528395, (Docket No. IS10.0518-US-NP). This assignment is effective as of 20 Jun 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.

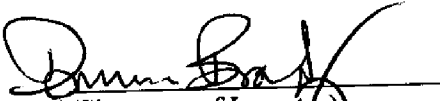
AND said Inventors do hereby authorize and request the issuing authority to issue any and all of said United States and foreign patents on said application or applications to said COMPANIES,

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, **Dominic Brady**, have hereunto set my hand and seal this  
29 day of August, 2012.

  
(Signature of Inventor)

BE IT KNOWN that **Dominic Brady**, is to me known to be the individual described in the foregoing assignment, that on this 29 day of August, 2012, 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.

Allen Carl Long  
Witness

16 Poplar Drive  
Marchwood Mass  
01462

\_\_\_\_\_  
Post Office Address

P. S. M. P. STOFFORD  
Witness

105 Imperial Avenue  
Southampton  
01060 8PZ

\_\_\_\_\_  
Post Office Address

IN WITNESS WHEREOF I, **Arthur H. Hartog**, have hereunto set my hand and seal this  
29<sup>th</sup> day of August, 2012.

A. 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 29<sup>th</sup> day of August, 2012, 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.

Giles Powell  
Witness (GILES POWELL)

68 Teg Down Meads  
Winchester  
SO22 8ND, UK

Post Office Address

Mr. Carl Long  
Witness

16 Poplar Drive  
Marewood  
Solo LHM

Post Office Address

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, 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, Cyprus, 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.