

## PATENT ASSIGNMENT

Electronic Version v1.1  
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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>John Edwards</td> <td>09/04/2005</td> </tr> <tr> <td>Christian Stoller</td> <td>09/01/2005</td> </tr> <tr> <td>Peter Wraight</td> <td>09/07/2005</td> </tr> <tr> <td>Roger Griffiths</td> <td>09/03/2005</td> </tr> <tr> <td>Nicolas Renoux</td> <td>09/15/2005</td> </tr> </tbody> </table>		Name	Execution Date	John Edwards	09/04/2005	Christian Stoller	09/01/2005	Peter Wraight	09/07/2005	Roger Griffiths	09/03/2005	Nicolas Renoux	09/15/2005
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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>110 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:	110 Schlumberger Drive	City:	Sugar Land	State/Country:	TEXAS	Postal Code:	77478		
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CORRESPONDENCE DATA													
<p>Fax Number: (713)689-6372</p> <p>Phone: 81427595321</p> <p>Email: kawashima1@exchange.slb.com</p> <p><i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i></p> <p>Correspondent Name: Schlumberger - COE</p> <p>Address Line 1: WesternGeco 10001 Richmond Ave.</p> <p>Address Line 2: Room 3028</p> <p>Address Line 4: Houston, TEXAS 77042</p>													
ATTORNEY DOCKET NUMBER:	21.1147USPCT ASSIGNMENT												
NAME OF SUBMITTER:	Setsuko Kawashima												

CH \$40.00 10547961

**Total Attachments: 6**

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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

1.     **EDWARDS John**           c/o Schlumberger Oilfield Services, PO Box 2548, Ruwi, Postal Code 112,  
  Sultanate of Oman
2.     **STOLLER Christian**       c/o Schlumberger Princeton Technology Center, 20 Wallace Road, Princeton  
  Junction, NJ 08550, USA
3.     **WRAIGHT Peter**           c/o Schlumberger Princeton Technology Center, 20 Wallace Road, Princeton  
  Junction NJ 08550, USA
4.     **GRIFFITHS Roger**          c/o Schlumberger Middle East S.A., P.O. Box 21, Abu Dhabi, United Arab Emirates
5.     **RENOUX Nicolas**          c/o Etudes et Productions Schlumberger 1, rue Henri Becquerel, B.P. 202, 92142  
  Clamart Cedex France

have invented certain new and useful improvements in

**METHOD AND APPARATUS FOR DETECTING WHILE DRILLING UNDERBALANCED THE PRESENCE AND DEPTH  
OF WATER PRODUCED FROM THE FORMATION**

as described and set forth in U.S. Application filed on

WHEREAS each of the undersigned persons warrants that no person other than these undersigned persons are inventors of the above-described invention;

AND WHEREAS, Schlumberger Technology Corporation, hereinafter referred to as the "said COMPANY", a corporation duly organized, incorporated and existing under the laws of the State of Texas and having a place of business at 110 Schlumberger Drive, Sugar Land, Texas 77478 (P.O. Box 2175, Houston, Texas 77252-2175) is desirous of acquiring or confirming its 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;

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN, BE IT KNOWN, that undersigned the 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 COMPANY, its 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,

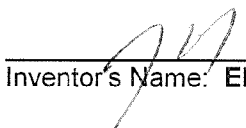
TO HAVE AND TO HOLD the same to the full end of the term or terms for which any and all such United States and foreign patents and grants may be issued on said invention, inventions or improvements.

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 COMPANY, its 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 COMPANY, its 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.


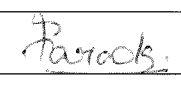
AND said Inventors, for the conditions aforesaid, do hereby covenant and agree to and with the said COMPANY, its successors and assigns, that each Inventor, his or her executors, administrators, or other personal representatives, shall and will do all lawful acts and things, make all rightful oaths, 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 COMPANY, its successors and assigns, may be required or necessary in this or in any foreign country more effectually to secure to and vest in said COMPANY, its 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, **EDWARDS John** have hereunto set my hand and seal on  
4th September, 2005.

  
 Inventor's Name: **EDWARDS John**

WITNESSED:

BE IT KNOWN that **EDWARDS John** is to me known to be the individual described in the foregoing assignment, that on \_\_\_\_\_, 2005, 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 (Signature) 	Witness (Signature) 
Name <u>ROSITA DE VECCHI</u>	Name <u>FAROOK K. U.</u>
Address <u>P.O. BOX 6355, RUWI</u>	Address <u>C/o. P.B. No. 2548,</u>
<u>CODE 112</u>	<u>RUWI, CODE : 112</u>
<u>SULTANATE OF OMAN</u>	<u>SULTANATE OF OMAN</u>

IN WITNESS WHEREOF, I, **STOLLER Christian** have hereunto set my hand and seal on  
1-Sep-2005, 2005.

  
 Inventor's Name: **STOLLER Christian**

WITNESSED:

BE IT KNOWN that **STOLLER Christian** is to me known to be the individual described in the foregoing assignment, that on \_\_\_\_\_, 2005, 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 (Signature) 	Witness (Signature) 
Name <b>BERTRAND LACOUR</b>	Name <b>LUKE PERKINS</b>
Address <b>20 WALLACE ROAD</b>	Address <b>20 WALLACE ROAD</b>
<b>PRINCETON JUNCTION, NJ 08550</b>	<b>PRINCETON JCT, NJ 08550</b>
	<b>USA.</b>

IN WITNESS WHEREOF, I, **WRAIGHT Peter** have hereunto set my hand and seal on  
September 7, 2005.

*Peter Wraight*

Inventor's Name: **WRAIGHT Peter**

WITNESSED:

BE IT KNOWN that **WRAIGHT Peter** is to me known to be the individual described in the foregoing assignment, that on September 7, 2005, 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 (Signature) <i>Margaret Spells</i>	Witness (Signature) <i>Patrice Ligneul</i>
Name <i>MARGARET Spells</i>	Name <i>PATRICE Ligneul</i>
Address <i>20 WALLACE ROAD</i>	Address <i>20 WALLACE ROAD</i>
<i>Princeton Jct, NJ</i>	<i>Princeton Jct, NJ</i>
<i>08550</i>	<i>08550</i>

IN WITNESS WHEREOF, I, **GRIFFITHS Roger** have hereunto set my hand and seal on  
3 - SEPTEMBER, 2005.

R. Griffiths

Inventor's Name: **GRIFFITHS Roger**

WITNESSED:

BE IT KNOWN that **GRIFFITHS Roger** is to me known to be the individual described in the foregoing assignment, that on 3<sup>rd</sup> September 2005, 2005, 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 (Signature) <u>K.</u>	Witness (Signature) <u>G. Vindenberg</u>
Name <u>Khouloud KARAM</u>	Name <u>GARY VINDENBERG</u>
Address <u>Schlumberger, Mussafah</u>	Address <u>Schlumberger, Mussafah</u>
<u>Abu Dhabi, UAE. PO BOX 21</u>	<u>Abu Dhabi, UAE PO BOX 21</u>

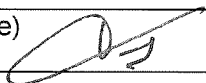
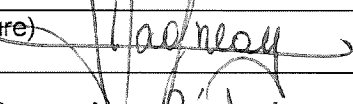
IN WITNESS WHEREOF, I, **RENOUX Nicolas** have hereunto set my hand and seal on  
15 September, 2005.



Inventor's Name: **RENOUX Nicolas**

WITNESSED:

BE IT KNOWN that **RENOUX Nicolas** is to me known to be the individual described in the foregoing assignment, that on September 15, 2005, 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 (Signature) 	Witness (Signature) 
Name <u>DELGADO Carmen</u>	Name <u>DAGNEAU Béatrice</u>
Address <u>Residence La Croix Audouine</u>	Address <u>30 Ter Rue de la Gare</u>
<u>91300 Gif/YVETTE</u>	<u>92320 Châtillon</u>
	<u>France</u>