

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>Youxiang (Julian) Zuo</td><td>09/12/2008</td></tr><tr><td>Moin Muhammad</td><td>10/30/2008</td></tr><tr><td>Jiabao (Jack) Zhu</td><td>09/12/2008</td></tr><tr><td>Dingan (Dan) Zhang</td><td>09/12/2008</td></tr></tbody></table>	Name	Execution Date	Youxiang (Julian) Zuo	09/12/2008	Moin Muhammad	10/30/2008	Jiabao (Jack) Zhu	09/12/2008	Dingan (Dan) Zhang	09/12/2008	
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Dingan (Dan) Zhang	09/12/2008										
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>12209050</td></tr></tbody></table>	Property Type	Number	Application Number:	12209050							
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Application Number:	12209050										
CORRESPONDENCE DATA											
Fax Number:	(780)450-1668										
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>											
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Correspondent Name:	SCHLUMBERGER CANADA LIMITED										
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ATTORNEY DOCKET NUMBER:	117.0010US										
NAME OF SUBMITTER:	Wayne I. Kanak										
Total Attachments: 7 source=117-0010US_Assignment#page1.tif											

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Assignment

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

Youxiang (Julian) ZUO, a citizen of Canada, residing at 408 Byrne Crescent SW, Edmonton, AB T6W 1C9 Canada;

Moin MUHAMMAD, a citizen of Canada, residing at 23123 Starlight Beach Road, Katy, Texas 77494 USA

Jiabao (Jack) ZHU, a citizen of Canada residing at 4312 – 114 Street NW, Edmonton, AB T6J 1N1, Canada;

Dingan (Dan) ZHANG, a citizen of Canada, residing at 3623 – 106 Street NW, Edmonton, AB T6J 2L2, Canada;

Have invented certain new and useful improvements in

Methods And Apparatus For Characterization Of Petroleum Fluid And Applications Thereof

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 September 11, 2008, Serial No. 12/209050, (Attorney Docket No. 117-0010).

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.

This assignment is made effective as of September 11, 2008 (the filing date of said US application filed in the United States Patent and Trademark Office).

Sworn before me at the City of Edmonton,)
Province of Alberta, this 12th day of September,)
2008)

Commissioner for Oaths in and for the
Province of Alberta, Canada


Youxiang (Julian) ZUO

LAUREN M. WILLES
A Commissioner for Oaths in and
for the Province of Alberta. My
Commission Expires Aug. 22, 2010

70036

IN WITNESS WHEREOF I, MOIN MUHAMMAD have hereunto set my hand and seal this 30
day of OCTOBER, 2008.

Moin Muhammad
MOIN MUHAMMAD

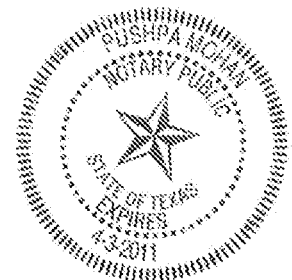
STATE OF TEXAS

COUNTY OF Fort Bend

BEFORE ME this 30 day of OCTOBER, 2008, personally appeared MOIN MUHAMMAD, 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

Pushpa Mohan
Notary Public



This assignment is made effective as of September 11, 2008 (the filing date of said US application filed in the United States Patent and Trademark Office).

Sworn before me at the City of Edmonton,)
Province of Alberta, this 12th day of September,)
2008)

Commissioner for Oaths in and for the
Province of Alberta, Canada

.....
 Jiabao (Jack) ZHU

LAUREN M. WILLES
A Commissioner for Oaths in and
for the Province of Alberta. My
Commission Expires Aug. 22, 2010

700316

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Sworn before me at the City of Edmonton,)
Province of Alberta, this 12th day of September,)
2008)

Commissioner for Oaths in and for the
Province of Alberta, Canada

Dingan (Dan) ZHANG

LAUREN M. WILLES
A Commissioner for Oaths in and
for the Province of Alberta. My
Commission Expires Aug. 22, 2010

#700316

Schedule A
"COMPANIES"

SCHLUMBERGER TECHNOLOGY CORPORATION

Corporation of: United States of America (Texas)

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 (Ontario)

Located at: 525-3rd 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, Tortola, British Virgin Islands

Assignee for applications in: Japan, The Netherlands, Saudi Arabia, 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, 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, Venezuela

PRAD RESEARCH AND DEVELOPMENT LIMITED

Corporation of: the British Virgin Islands

Located at: P.O. Box 71, Craigmuir Chambers, Road Town, Tortola, British Virgin Islands

Assignee for applications in: Algeria, Angola, Brazil, China, Ecuador, Egypt, Eurasia, Gulf Cooperation Council, India, Nigeria, Singapore, Ukraine, United Arab Emirates, and Rest of World