PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Denise E Freed	07/08/2009
Kentaro Indo	06/16/2009
Oliver C Mullins	06/19/2009
John Ratulowski	07/08/2009
Julian Zuo	06/17/2009

RECEIVING PARTY DATA

Name:	Schlumberger Technology Corporation	
Street Address:	One Hampshire Street	
City:	Cambridge	
State/Country:	MASSACHUSETTS	
Postal Code:	02139	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	12483813

CORRESPONDENCE DATA

Fax Number: (617)768-2402

Correspondence will be sent via US Mail when the fax attempt is unsuccessful.

Phone: 617-768-2000

Email: sfernandez4@slb.com

Correspondent Name: Schlumberger Technology Corporation

Address Line 1: One Hampshire Street

Address Line 4: Cambridge, MASSACHUSETTS 02139

ATTORNEY DOCKET NUMBER:	60.1832 US NP
NAME OF SUBMITTER:	James McAleenan

PATENT REEL: 022964 FRAME: 0907 340.00 1248381

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Total Attachments: 8 source=60_1832USNP_exec_assignment_final#page1.tif source=60_1832USNP_exec_assignment_final#page2.tif source=60_1832USNP_exec_assignment_final#page3.tif source=60_1832USNP_exec_assignment_final#page4.tif source=60_1832USNP_exec_assignment_final#page5.tif source=60_1832USNP_exec_assignment_final#page6.tif source=60_1832USNP_exec_assignment_final#page7.tif source=60_1832USNP_exec_assignment_final#page8.tif

PATENT REEL: 022964 FRAME: 0908

Assignment

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

Denise E. Freed, a citizen of the United States of America, residing at 15 Rogers Street, Newton Highlands, MA 02461, USA;

Kentaro Indo, a citizen of Japan, residing at 656 Leger Way NW, Edmonton, AB, T6R 0C1, CA:

Oliver C. Mullins, a citizen of the United States of America, residing at 11 Hillsdale Road, Ridgefield, CT 06877, USA;

John Ratulowski, a citizen of Canada, residing at 522 Butterworth Way, Edmonton, AB T6R 2N4, CA; and

Julian Zuo, a citizen of Canada, residing at 408 Byrne Crescent SW, Edmonton, AB T6W 1C9, CA.

Has/have invented certain new and useful improvements in

USING MODELS FOR EQUILIBRIUM DISTRIBUTIONS OF ASPHALTENES IN THE PRESENCE OF GOR GRADIENTS TO DETERMINE SAMPLING PROCEDURES

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 June 12, 2009, Serial No. 12/483,813 (Docket No. 60.1832 US NP).

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.

WITNESSED:	
IN WITNESS WHEREOF I, Denise E Freed, have 8 day of July , 2009.	hereunto set my hand and seal this Denne E. Treed (Signature of Inventor)
COMMONWEALTH OF MASSACHUSETTS) MIDDLESEX COUNTY)	
On this Stu day of July Notary Public, personally appeared, Denise E Freed , pro of identification, which were MA livered who signed the preceding or attached document in my p me that the contents of the document are truthful and ac and belief.	, to be the person presence, and who swore or affirmed to ecurate to the best of his/her knowledge
Seal	Barlices Kuffseg (C) Notary Public

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

WITNESSED:	
IN WITNESS WHEREOF I, Kentaro Inc	do , have hereunto set my hand and seal this 2009.
	(Signature of Inventor)
WITNESSED:	
	Indo is known to us to be the individual described
in this assignment, that on this 16th day of	Juno, 2009, we were personally
present and did see him/her sign and execute the	his assignment and that he/she acknowledged to us
that he/she executed the same as his/her free	act and deed for the uses and purposes therein set
forth.	
	LleyfexsE
First Witness (Signature)	Second Witness (Signature)
11025 - 82nd ALF \$802	#403B, 11144-28 Ave
EDMONTON, TEGOT 1	Folmonton, T6J AM2
AB CANADA	AB, Canada
Post Office Address	Post Office Address

WITNESSED:				
IN WITNESS WHEREOF I, Oliver Color day of	Mullins, have, 2009.	hereunto pet my (Signature of Inv		this
)))			
On this day of day of Notary Public, personally appeared, Olevidence of identification, which were person who signed the preceding or attachment to me that the contents of the definition of the defini	liver C Mullin CT Drivers tached document	t in my presence,	through satisfact to be and who swore	tory the
		Juhei wa	1. Yofk	_
		otary Public My Commissi Ecopines	"01 12/31/2013	

WITNESSED:	
IN WITNESS WHEREOF I, John Ratulov 8 day of John , 2	wski, have hereunto set my hand and seal this 2009. (Signature of Inventor)
WITNESSED:	
BE IT KNOWN, that John R	Ratulowski is known to us to be the individual
described in this assignment, that on this	day of, 2009, we were
personally present and did see him/her sign	n and execute this assignment and that he/she
acknowledged to us that he/she executed the s	same as his/her free act and deed for the uses and
purposes therein set forth.	
First Witness (Signature)	Second Witness (Signature) 1414 RUTHERFORD COURT
#141, 8735-165 ST Idmoston, AB	ESMONTON AB
Cauada T5R2RL Post Office Address	CANADA TGω 1H7 Post Office Address

WITNESSED:	
IN WITNESS WHEREOF I, Julian Zuo. 17 day of June, 2	, have hereunto set my hand and seal this 2009. (Signature of Inventor)
WITNESSED:	
BE IT KNOWN, that Julian Zu	o is known to us to be the individual described in
this assignment, that on this day of	June, 2009, we were personally
present and did see him/her sign and execute th	is assignment and that he/she acknowledged to us
that he/she executed the same as his/her free a	act and deed for the uses and purposes therein set
forth.	
All	Toangur Pay.
First Witness (Signature)	Second Witness (Signature)
9450-17 Ave.	9450-1) Ave
Edmonton, AB T&	3 dononton, AB
T6N1M9	TON IM9

Post Office Address

Post Office Address

Schedule A

"COMPANIES"

SCHLUMBERGER CANADA LIMITED

Corporation of: Canada

Located at: 525-3rd Avenue S.W., Calgary, Alberta, CA T2P 0G4

Assignee for applications in: Canada

SCHLUMBERGER TECHNOLOGY CORPORATION

Corporation of: USA

Located at: One Hampshire Street, Cambridge, MA 02139

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 83-89, 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