

PATENT ASSIGNMENT

Electronic Version v1.1
Stylesheet Version v1.1

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>Neil Francis Hurley</td><td>04/29/2011</td></tr><tr><td>Weishu Zhao</td><td>04/20/2011</td></tr><tr><td>Tuanfeng Zhang</td><td>03/31/2011</td></tr></tbody></table>		Name	Execution Date	Neil Francis Hurley	04/29/2011	Weishu Zhao	04/20/2011	Tuanfeng Zhang	03/31/2011		
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Weishu Zhao	04/20/2011										
Tuanfeng Zhang	03/31/2011										
RECEIVING PARTY DATA											
<table border="1"><tr><td>Name:</td><td>Schlumberger Technology Corporation</td></tr><tr><td>Street Address:</td><td>One Hampshire Street</td></tr><tr><td>City:</td><td>Cambridge</td></tr><tr><td>State/Country:</td><td>MASSACHUSETTS</td></tr><tr><td>Postal Code:</td><td>02139</td></tr></table>		Name:	Schlumberger Technology Corporation	Street Address:	One Hampshire Street	City:	Cambridge	State/Country:	MASSACHUSETTS	Postal Code:	02139
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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>13036770</td></tr></tbody></table>		Property Type	Number	Application Number:	13036770						
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Application Number:	13036770										
CORRESPONDENCE DATA											
Fax Number: (617)768-2402 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>											
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:	IS11.0023 US NP/SDCR										
NAME OF SUBMITTER:	Susannah Fernandez										
Total Attachments: 6 source=IS11_0023USNP_exec_assignment_submitted#page1.tif source=IS11_0023USNP_exec_assignment_submitted#page2.tif source=IS11_0023USNP_exec_assignment_submitted#page3.tif source=IS11_0023USNP_exec_assignment_submitted#page4.tif source=IS11_0023USNP_exec_assignment_submitted#page5.tif source=IS11_0023USNP_exec_assignment_submitted#page6.tif											

CH \$40.00 13036770

Assignment

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

Neil Francis Hurley, a citizen of the United States of America, residing at 5 Chestnut Street, Apt. 1, Boston, MA 02108, US;

Weishu Zhao, a citizen of Canada, residing at Villa 30, Al-Mutlaq Compound, Al-Khobar 31952 SA; and

Tuanfeng Zhang, a citizen of China, residing at 17 Frances Road, Lexington, MA 02421, US.

Has/have invented certain new and useful improvements in

MULTISCALE DIGITAL ROCK MODELING FOR RESERVOIR SIMULATION

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 February 28, 2011, Serial No. 13/036,770 (Docket No. IS11.0023 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, Neil Francis Hurley, have hereunto set my hand and seal this
29 day of April, 2011.

Neil Francis Hurley
(Signature of Inventor)

COMMONWEALTH OF MASSACHUSETTS)
COUNTY OF MIDDLESEX)

On this 29 day of April, 2011, before me, the undersigned Notary Public, personally appeared, Neil Francis Hurley, proved to me through satisfactory evidence of identification, which were personally known to me, to be the person who signed the preceding or attached document in my presence, and who swore or affirmed to me that the contents of the document are truthful and accurate to the best of his/her knowledge and belief.

Seal

Susannah E. Fernandez
Notary Public



SUSANNAH E. FERNANDEZ
Notary Public
Commonwealth of Massachusetts
My Commission Expires
February 11, 2018

WITNESSED:

IN WITNESS WHEREOF I, **Weishu Zhao**, have hereunto set my hand and seal this
20th day of April, 2011.

Weishu Zhao
(Signature of Inventor)

WITNESSED:

BE IT KNOWN, that **Weishu Zhao** is known to us to be the individual described
in this assignment, that on this 20 day of April, 2011, we were personally
present and did see him/her sign and execute this 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.

Francis Rivers
First Witness (Signature)

TIANHUA ZHANG Tianhua Zhang
Second Witness (Signature)

SDCR, Dhahran Techno Valley-KFUPM

SDCR, Dhahran Techno Valley-KFUPM

P.O. Box 39011


P.O. Box 39011

Dammam / Doha camp 31942, KSA
Post Office Address

Dammam / Doha Camp 31942, KSA
Post Office Address

WITNESSED:

IN WITNESS WHEREOF I, Tuanfeng Zhang, have hereunto set my hand and seal this
31 day of March, 2011.

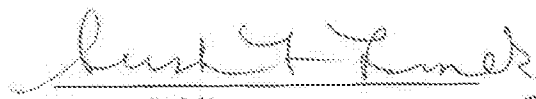

(Signature of Inventor)

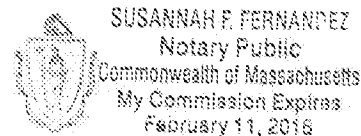
COMMONWEALTH OF MASSACHUSETTS)

COUNTY OF MIDDLESEX)

On this 31 day of March, 2011, before me, the undersigned Notary Public, personally appeared, Tuanfeng Zhang, proved to me through satisfactory evidence of identification, which were personally known to me, to be the person who signed the preceding or attached document in my presence, and who swore or affirmed to me that the contents of the document are truthful and accurate to the best of his/her knowledge and belief.

Seal


Notary Public



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