

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>Emmanuel Coste</td> <td>08/06/2013</td> </tr> <tr> <td>John Richard Tulett</td> <td>08/05/2013</td> </tr> <tr> <td>Hiroshi Nomura</td> <td>08/12/2013</td> </tr> <tr> <td>James Edward Martin</td> <td>08/12/2013</td> </tr> </tbody> </table>		Name	Execution Date	Emmanuel Coste	08/06/2013	John Richard Tulett	08/05/2013	Hiroshi Nomura	08/12/2013	James Edward Martin	08/12/2013
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Emmanuel Coste	08/06/2013										
John Richard Tulett	08/05/2013										
Hiroshi Nomura	08/12/2013										
James Edward Martin	08/12/2013										
RECEIVING PARTY DATA											
Name:	Schlumberger Technology Corporation										
Street Address:	200 Gillingham Lane, MD1										
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>12048201</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	12048201						
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Application Number:	12048201										
CORRESPONDENCE DATA											
Fax Number:	7136896372										
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>											
Phone:	81427595321										
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ATTORNEY DOCKET NUMBER:	26.0284USCIP REV-ASSIGNME										
NAME OF SUBMITTER:	Setsuko Kawashima										
Signature:	/Setsuko Kawashima/										

PATENT

Date:

08/15/2013

Total Attachments: 7

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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

Emmanuel Coste, a citizen of France, whose post office address is Mogens Thorsens Gate 9, 0264 Oslo, Norway;

John Richard Tulett, a citizen of Canada, whose post office address is 3-16-1 Shinohara, Higashi, Kohoku-ku, Yokohama-shi, Kanagawa-ken 222-0022 Japan;

Hiroshi Nomura, a citizen of Japan, whose post office address is 3-19-8-409 Higashi-Hashimoto, Midori-ku, Sagami-hara-shi, Kanagawa-ken 252-0144 Japan;

James Edward Martin, a citizen of the United Kingdom, whose post office address is 5 The Spinney, Cottenham, Cambridge, CB24 8RN, GB

Has/have invented certain new and useful improvements in

Methods and Apparatus of Source Control for Synchronized Firing of Air Gun Arrays with Receivers in a Well Bore in Borehole Seismic

as described and set forth in an application for Letters Patent of the United States of America, filed on March 13, 2008 under Attorney Docket No. 26.0284 US CIP assigned serial # 12/048,201.

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.

IN TESTIMONY WHEREOF, I have duly executed this Assignment on this 06 day of AUGUST, 2013.

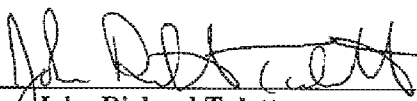
~~2013~~ | ~~E.~~
Name: Emmanuel Coste

Witnesses:


Signature: [Signature]
Name: J. Claude COSTE Date: 6 AUGUST 2013
Address: CHAVK
2558 Route des TRAVERSEES
FRANCE 74500 VINZIER

Signature: [Signature]
Name: Coste Françoise Date: 6 August 2013
Address: 2558 Route des Traverses
74500 Vinzier
France

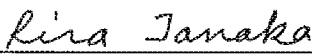
IN TESTIMONY WHEREOF, I have duly executed this Assignment on this 5th day of AUGUST, 2013.


Name: John Richard Tulett

Witnesses:

Signature 
Name: Setsuko Kawashima
Address: 5-3-25 Tamagawa-Gakuen
Machida-shi, Tokyo
194-0041 Japan

Date: August 5 2013

Signature 
Name: Rira Tanaka
Address: 3-20-9-313 Nishi-Ikuta, Tama-ku,
Kawasaki-shi, Kanagawa-ken
~~259-0206,~~ Japan
R.T.
214-0037,

Date: Rira Tanaka
August 5, 2013

IN TESTIMONY WHEREOF, I have duly executed this Assignment on this 12th day of AUGUST, 2013.

H. Nomura
Name: Hiroshi Nomura

Witnesses:

Signature: *[Signature]*
Name: Setsuko Kawashima Date: August 12, 2013
Address: 5-3-25 Tamagawa-Gakuen
Machida-shi, Tokyo
194-0041 Japan

Signature: *Rira Tanaka*
Name: Rira Tanaka Date: August 12, 2013
Address: 3-20-9-313 Nishi-Ikuta, Tama-ku,
Kawasaki-shi, Kanagawa-ken
214-0037 Japan

IN TESTIMONY WHEREOF, I have duly executed this Assignment on this 12th day of August, 2013.

J E Martin
Name: James Edward Martin

Witnesses:

Signature: [Signature]
Name: Clare Smith Date: 12th August 2013
Address: 20 Monarch Close
Haverhill
Suffolk CB99QW

Signature: [Signature]
Name: PHILIP A.F. CHRISTIE Date: 12 August 2013
Address: TEAL COTTAGE
FEN DRAYTON
CAMBS, CB24 4SH

SCHEDULE A
"COMPANIES"

SCHLUMBERGER TECHNOLOGY CORPORATION

Corporation of: United States of America

Located at: 200 Gillingham Lane, MD1, Sugar Land, Texas 77478 USA

Assignee for applications in: United States of America

SCHLUMBERGER CANADA LIMITED

Corporation of: Canada

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, 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: GCC and all other countries.

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: Angola, Bahrain, Bangladesh, Benin, Cambodia, Cameroon, Chad, China, Congo, Gabon, Ghana, Guinea-Bissau, India, Ivory Coast, Jordan, Libya, Mauritania, Morocco, Mozambique, Myanmar, Namibia, Nigeria, Philippines, Senegal, Sudan, Syria, Taiwan, Togo, UAE, Vietnam, Zaire.