

PATENT ASSIGNMENT

Electronic Version v1.1

Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT										
NATURE OF CONVEYANCE:	ASSIGNMENT										
CONVEYING PARTY DATA											
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 70%;">Name</th> <th style="width: 30%;">Execution Date</th> </tr> </thead> <tbody> <tr> <td>Jon-Fredrik Hopperstad</td> <td>08/17/2010</td> </tr> <tr> <td>Robert Montgomery Laws</td> <td>09/15/2010</td> </tr> <tr> <td>Julian Edward Kragh</td> <td>08/23/2010</td> </tr> </tbody> </table>		Name	Execution Date	Jon-Fredrik Hopperstad	08/17/2010	Robert Montgomery Laws	09/15/2010	Julian Edward Kragh	08/23/2010		
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RECEIVING PARTY DATA											
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;">Name:</td> <td>WesternGeco LLC</td> </tr> <tr> <td>Street Address:</td> <td>10001 Richmond Avenue</td> </tr> <tr> <td>City:</td> <td>Houston</td> </tr> <tr> <td>State/Country:</td> <td>TEXAS</td> </tr> <tr> <td>Postal Code:</td> <td>77042</td> </tr> </table>		Name:	WesternGeco LLC	Street Address:	10001 Richmond Avenue	City:	Houston	State/Country:	TEXAS	Postal Code:	77042
Name:	WesternGeco LLC										
Street Address:	10001 Richmond Avenue										
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PROPERTY NUMBERS Total: 1											
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CORRESPONDENCE DATA											
<p>Fax Number: (617)768-2402</p> <p><i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Phone: 617-768-2000</p> <p>Email: sfernandez4@slb.com</p> <p>Correspondent Name: Schlumberger Technology Corporation</p> <p>Address Line 1: One Hampshire Street</p> <p>Address Line 4: Cambridge, MASSACHUSETTS 02139</p>											
ATTORNEY DOCKET NUMBER:	57.0842 US PCT										
NAME OF SUBMITTER:	James McAleenan										
<p>Total Attachments: 5</p> <p>source=57842USPCT_exec_assignment_submitted#page1.tif</p> <p>source=57842USPCT_exec_assignment_submitted#page2.tif</p>											

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Assignment

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

Jon-Fredrik Hopperstad, a citizen of Norway, residing at 3 Emery Street, Cambridge CB1 2AX, UK;

Robert Montgomery Laws, a citizen of Great Britain, residing at Cliftonville, George Street, Cambridge CB4 1AJ, UK; and

Julian Edward Kragh, a citizen of Great Britain, residing at Justice's Cottage, Wethersfield Road, Finchingfield, Essex CM7 4NX; UK.

Has/have invented certain new and useful improvements in

METHOD AND SYSTEM FOR SELECTING PARAMETERS OF A SEISMIC SOURCE ARRAY

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 18, 2010, Serial No. 12/809,091 (Docket No. 57.0842 US PCT).

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

AND WHEREAS, WESTERNGECO L.L.C., its successors and assigns (COMPANY), a Delaware Limited Liability Company, and having a place of business at 10001 Richmond Avenue, Houston, Texas 77042, U.S.A., wants to acquire or confirm its acquisition of the entire right, title and interest in this invention, inventions or improvements, application, and any patent, both in the United States and all foreign countries;

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 COMPANY, 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.

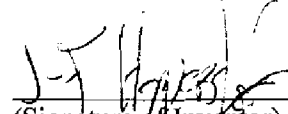
AND said Inventors do hereby authorize and request the issuing authority to issue any and all of said United States and foreign patents on said application or applications to said **COMPANY**, their successors and assigns, as the assignee of the entire right, title and interest in and to the same, for the sole use and benefit of said **COMPANY**, 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 **COMPANY**, 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 **COMPANY**, 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 **COMPANY**, 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, **Jon-Fredrik Hopperstad**, have hereunto set my hand and seal this
17 day of August, 2010.


(Signature of Inventor)

WITNESSED:

BE IT KNOWN, that **Jon-Fredrik Hopperstad** is known to us to be the individual described in this assignment, that on this 17th day of August, 2010, 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.


First Witness (Signature)


Second Witness (Signature)

13 b St Peters Street
Cambridge, CB3 0BD,
UK
Post Office Address

94 Columbine Road, Ely,
Cambridgeshire CB6 3WN
United Kingdom
Post Office Address

WITNESSED:

IN WITNESS WHEREOF I, **Robert Montgomery Laws**, have hereunto set my hand and seal
this 15 day of September, 2010.

Robert M. Laws
(Signature of Inventor)

WITNESSED:

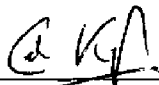
BE IT KNOWN, that **Robert Montgomery Laws** is known to us to be the
individual described in this assignment, that on this 15TH day of September,
2010, we were personally present and did see him/her sign and execute this assignment and that
he/she acknowledged to us that he/she executed the same as his/her free act and deed for the uses
and purposes therein set forth.

Anna Bruce
First Witness (Signature)
ANNA BRUCE
94 Columbine Road, Ely,
Cambridgeshire CB6 3WN
United Kingdom
Post Office Address

A. Perfit
Second Witness (Signature)
A PERFIT
62 CAMBRIDGE ROAD
IMPINGTON
CAMBS CB24 9NU UK
Post Office Address

WITNESSED:


IN WITNESS WHEREOF I, **Julian Edward Kragh**, have hereunto set my hand and seal this
23 day of August, 2010.


(Signature of Inventor)

WITNESSED:

BE IT KNOWN, that **Julian Edward Kragh** is known to us to be the individual described in this assignment, that on this 23rd day of August, 2010, 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.


First Witness (Signature)


Second Witness (Signature)

30 Toft Lane

94 Columbine Road, Ely,

Gt Wilbraham

Cambridgeshire CB6 3WN

Cambridge
Post Office Address

United Kingdom
Post Office Address