

PATENT ASSIGNMENT COVER SHEET

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| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | ASSIGNMENT |
| CONVEYING PARTY DATA | |
| Name | Execution Date |
| EINAR OTNES | 01/11/2009 |
| RECEIVING PARTY DATA | |
| Name: | WesternGeco L.L.C. |
| Street Address: | 10001 Richmond Avenue |
| City: | Houston |
| State/Country: | TEXAS |
| Postal Code: | 77042-4299 |
| PROPERTY NUMBERS Total: 1 | |
| Property Type | Number |
| Application Number: | 12650319 |
| CORRESPONDENCE DATA | |
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| <i>Correspondence will be sent via US Mail when the email attempt is unsuccessful.</i> | |
| Correspondent Name: | WESTERNGECO L.L.C. |
| Address Line 1: | 10001 RICHMOND AVENUE |
| Address Line 2: | IP ADMINISTRATION CENTER OF EXCELLENCE |
| Address Line 4: | HOUSTON, TEXAS 77042-4299 |
| ATTORNEY DOCKET NUMBER: | 594-25677-US-NP |
| NAME OF SUBMITTER: | QUERLYN MARQUES |
| Signature: | /Querlyn MARQUES/ |
| Date: | 01/20/2014 |

Total Attachments: 6

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Assignment

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

Nicolae Moldoveanu, a citizen of the United States of America, residing at 4611 Green Trail Drive, Houston, Texas 77084, USA, and

Einar Otnes, a citizen of Norway, residing at 12035 Terraza Cove Lane, Houston, Texas 77041, USA

Has/have invented certain new and useful improvements described in the invention disclosure entitled

RANDOM SAMPLING OF SEISMIC DATA WITH COIL SHOOTING ACQUISITION

(WesternGeco Docket No. 594-25677-US) and/or as described and set forth in one or more associated patent applications (filed or to be filed). The Inventor(s) hereby authorize and request WesternGeco's legal department, to revise the address above, if needed, and/or to insert in the space provided in Schedule A the filing date(s), application number(s), and title(s) of said application(s) when known.

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 B, 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 B;

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; and entire right, title and interest in all the intellectual property in the invention including, but not limited to, any and all ideas, discoveries, writings (including software and its source

code) and improvements in the invention, together with any and all domestic and foreign design rights, trademarks, trade secrets and copyrights in such ideas.

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 WITNESS WHEREOF I, **Nicolae Moldoveanu**, have hereunto set my hand and seal this
____ day of _____, 2009.

(Signature of Inventor)

STATE OF TEXAS

COUNTY OF HARRIS

BEFORE ME this ____ day of _____, 2009, personally appeared **Nicolae Moldoveanu**, 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

Notary Public

IN WITNESS WHEREOF I, **Einar Otnes**, have hereunto set my hand and seal this 11th day of January, 2009.

Einar Otnes

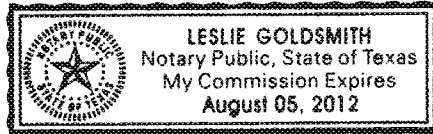
(Signature of Inventor)

STATE OF TEXAS

COUNTY OF HARRIS

BEFORE ME this 11th day of January, 2009, personally appeared **Einar Otnes**, 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



Leslie Goldsmith

Notary Public

Schedule A
“APPLICATIONS”

| Filing Date | Application No. | Title |
|-------------|-----------------|---|
| 30/DEC/2009 | 12/650319 | RANDOMIZATION OF DATA ACQUISITION IN MARINE SEISMIC AND ELECTROMAGNETIC ACQUISITION |
| | | |
| | | |

Schedule B
“COMPANIES”

WESTERNGECO, L.L.C.

Corporation of: Delaware, USA

Located at: 10001 Richmond Avenue, Houston, Texas 77042-4299, USA

Assignee for applications in: The United States of America

GECO TECHNOLOGY B.V.

Corporation of: The Netherlands

Located at: Gevers Deynootweg 61, 2586 BJ S Gravenhage, The Netherlands

Assignee for applications in: Albania, Algeria, Angola, Argentina, Australia, Austria, Azerbaijan, Brazil, Brunei, Bulgaria, China, Colombia, Czech Republic, Denmark, Ecuador, Egypt, Eurasia, Europe, Faroe Islands, France, Germany, Greece, Gulf Cooperation Council, Hungary, India, Indonesia, Ireland, Israel, Italy, Japan, Kazakhstan, Korea, Kuwait, Libya, Lithuania, Malaysia, Mexico, The Netherlands, New Zealand, Nigeria, Norway, Oman, Pakistan, Poland, Qatar, Romania, Russia, Saudi Arabia, Singapore, Slovakia, Slovenia, South Africa, Spain, Thailand, Trinidad, Tunisia, Turkey, Turkmenistan, Ukraine, United Arab Emirates, United Kingdom, Uzbekistan, Venezuela, Vietnam, and Rest of World

SCHLUMBERGER CANADA LIMITED

Corporation of: Canada

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

Assignee for applications in: Canada