

## PATENT ASSIGNMENT COVER SHEET

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<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
MICKAEL LANDAIS	02/24/2014
CHU-ONG TING	03/03/2014
THOMAS MENSCH	02/24/2014
DAMIEN GRENIÉ	02/24/2014
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	CGG SERVICES SA
<b>Street Address:</b>	27, AVENUE CARNOT
<b>City:</b>	MASSY CEDEX
<b>State/Country:</b>	FRANCE
<b>Postal Code:</b>	91341
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	14190837
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(888)232-9785
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<b>Phone:</b>	540-361-2601
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<b>Correspondent Name:</b>	PATENT PORTFOLIO BUILDERS, PLLC
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<b>Address Line 4:</b>	FREDERICKSBURG, VIRGINIA 22404
<b>ATTORNEY DOCKET NUMBER:</b>	0336-261-3/100475
<b>NAME OF SUBMITTER:</b>	REMUS F. FETEA
<b>SIGNATURE:</b>	/Remus F. Fetea/
<b>DATE SIGNED:</b>	03/27/2014
<b>Total Attachments: 5</b>	
source=2014-03-12_SIGNED_Assignment_0336-261-3_100475#page1.tif	
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ASSIGNMENT

In accordance with my obligations under an Employee Innovation and Proprietary Information Agreement or (as applicable) arising out of other agreements (such as, but not limited to, the Services Agreement between CGG Services SA, a French Corporation, and my employer), and/or for other good and valuable consideration of which I/we acknowledge receipt, I/we,

Mickael LANDAIS of Versailles, FRANCE

Chu-Ong TING of Fulshear, TX, USA

Thomas MENSCH of Paris, FRANCE

Damien GRENIÉ of LIMOURS, FRANCE

hereby sell and assign to CGG Services SA, having an address at 27, Avenue Carnot, 91341 Massy Cedex, France, hereinafter referred to as "Company", its successors and assigns my/our entire respective rights, titles and interests in and to the invention and improvements invented and originated by me and described in the US Patent Application No. 14/190,837 for United States Patent currently entitled:

COMBINED WIDE AND NARROW AZIMUTH SEISMIC DATA ACQUISITION  
SYSTEM AND METHOD

filed on February 26, 2014

and any and all applications for patent and patents therefrom in any and all countries, including all divisions, continuations, reexaminations and reissues thereof, and all rights of priority resulting from the filing of said United States application, and authorize and request any official whose duty it is to issue patents, to issue any patent on said inventions and improvements resulting therefrom to said Company, its successors, or assigns. Further, I/we agree to execute all divisional, continuation, reexamination and reissue applications, and to make all rightful oaths related to obtaining proper patent protection for said invention and its improvements in all countries.

The undersigned hereby grant(s) the law firm of Patent Portfolio Builders the power to insert on this Assignment any further identification which may be necessary or desirable in order to comply with the rules of the U.S. Patent and Trademark Office for recordation of this document.

Docket No. 0336-261-3/100475 "Assignment Signature Page"  
TITLE: COMBINED WIDE AND NARROW AZIMUTH SEISMIC DATA ACQUISITION SYSTEM AND METHOD

INVENTOR 1

Signature: [Signature] Date: 24/02/2014  
Mickael LANDAIS

Witnessed by: [Signature] Date: 24/02/2014  
Signature

Florence Desbats  
Printed Name of Witness

Witnessed by: [Signature] Date: 24/02/2014  
Signature

Bernadette Tardie  
Printed Name of Witness

**SECTION BELOW IS FOR USE ONLY IF SIGNING IN PRESENCE OF A NOTARY**

\_\_\_\_\_ Date: \_\_\_\_\_  
Mickael LANDAIS

STATE OF \_\_\_\_\_  
ss. \_\_\_\_\_  
COUNTY OF \_\_\_\_\_

This \_\_\_\_\_ day of \_\_\_\_\_, \_\_\_\_\_ before me personally came the above-named Mickael LANDAIS, to me personally known as the individual who executed the foregoing assignment, who acknowledged to me that he/she executed the same of his/her own free will for the purposes therein set forth.

Seal  
\_\_\_\_\_  
(Notary Public)

Docket No. 0336-261-3/100475 "Assignment Signature Page"

TITLE: COMBINED WIDE AND NARROW AZIMUTH SEISMIC DATA ACQUISITION SYSTEM AND METHOD

INVENTOR 2

Signature: [Handwritten Signature]  
Chu-Ong TING

Date: 3/3/2014

Witnessed by: [Handwritten Signature]  
Signature

Date: 3/3/2014

LEWIS TAYLOR COSS  
Printed Name of Witness

Witnessed by: [Handwritten Signature]  
Signature

Date: 3/3/2014

[Handwritten Signature]  
Printed Name of Witness

**SECTION BELOW IS FOR USE ONLY IF SIGNING IN PRESENCE OF A NOTARY**

\_\_\_\_\_  
Chu-Ong TING

Date: \_\_\_\_\_

STATE OF \_\_\_\_\_

ss.

COUNTY OF \_\_\_\_\_

This \_\_\_\_\_ day of \_\_\_\_\_, \_\_\_\_\_ before me personally came the above-named Chu-Ong TING, to me personally known as the individual who executed the foregoing assignment, who acknowledged to me that he/she executed the same of his/her own free will for the purposes therein set forth.

Seal

\_\_\_\_\_  
(Notary Public)

Docket No. 0336-261-3/100475 "Assignment Signature Page"  
TITLE: COMBINED WIDE AND NARROW AZIMUTH SEISMIC DATA ACQUISITION SYSTEM AND METHOD

INVENTOR 3

Signature: [Signature]  
Thomas MENSCH

Date: 24/02/2014

Witnessed by: [Signature]  
Signature

Date: 24/02/2014

RISTO SILIO  
Printed Name of Witness

Witnessed by: [Signature]  
Signature

Date: 24/02/2014

Cherck NIANG  
Printed Name of Witness

**SECTION BELOW IS FOR USE ONLY IF SIGNING IN PRESENCE OF A NOTARY**

\_\_\_\_\_  
Thomas MENSCH

Date: \_\_\_\_\_

STATE OF

ss.

COUNTY OF

This \_\_\_\_\_ day of \_\_\_\_\_, \_\_\_\_\_ before me personally came the above-named Thomas MENSCH, to me personally known as the individual who executed the foregoing assignment, who acknowledged to me that he/she executed the same of his/her own free will for the purposes therein set forth.

Seal

\_\_\_\_\_  
(Notary Public)

Docket No. 0336-261-3/100475 "Assignment Signature Page"

TITLE: COMBINED WIDE AND NARROW AZIMUTH SEISMIC DATA ACQUISITION SYSTEM AND METHOD

INVENTOR 4

Signature: [Handwritten Signature]  
Damien GRENIE

Date: 24/02/2014

Witnessed by: [Handwritten Signature]  
Signature

Date: 24/02/2014

[Handwritten Name]  
Printed Name of Witness

Witnessed by: [Handwritten Signature]  
Signature

Date: 24/02/2014

[Handwritten Name]  
Printed Name of Witness

**SECTION BELOW IS FOR USE ONLY IF SIGNING IN PRESENCE OF A NOTARY**

\_\_\_\_\_  
Damien GRENIE

Date: \_\_\_\_\_

STATE OF

ss.

COUNTY OF

This \_\_\_\_\_ day of \_\_\_\_\_, \_\_\_\_\_ before me personally came the above-named Damien GRENIE, to me personally known as the individual who executed the foregoing assignment, who acknowledged to me that he/she executed the same of his/her own free will for the purposes therein set forth.

Seal

\_\_\_\_\_  
(Notary Public)