

PATENT ASSIGNMENT

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| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | ASSIGNMENT |
| CONVEYING PARTY DATA | |
| Name | Execution Date |
| Robert SOUBARAS | 08/26/2011 |
| Yu ZHANG | 08/26/2011 |
| RECEIVING PARTY DATA | |
| Name: | CGGVeritas Services SA. |
| Street Address: | 27 Avenue Carnot |
| City: | Massy Cedex |
| State/Country: | FRANCE |
| Postal Code: | 91341 |
| PROPERTY NUMBERS Total: 1 | |
| Property Type | Number |
| Application Number: | 13190758 |
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| ATTORNEY DOCKET NUMBER: | 0336-036-2 |
| NAME OF SUBMITTER: | Remus F. Fetea |
| Total Attachments: 3 source=2011-08-31_Signed_Assignment_0336-036-2#page1.tif source=2011-08-31_Signed_Assignment_0336-036-2#page2.tif source=2011-08-31_Signed_Assignment_0336-036-2#page3.tif | |

OP \$40.00 13190758

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PATENT
REEL: 026844 FRAME: 0284

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 CGGVeritas Services SA., a French Corporation, and my employer), and/or for other good and valuable consideration of which I acknowledge receipt, I,

Robert SOUBARAS of **Massy, FRANCE**

Yu ZHANG of **Katy, Texas, UNITED STATES**

hereby sell and assign to **CGGVeritas Services SA.**, having an address at 27, Avenue Carnot, Massy, Cedex, 91341, France, hereinafter referred to as "Company", its successors and assigns my entire respective rights, titles and interests in and to the invention and improvements invented and originated by me and described in the non-provisional application for United States Patent currently entitled:

**3-D HARMONIC-SOURCE REVERSE TIME MIGRATION SYSTEMS AND METHODS
FOR SEISMIC DATA ANALYSIS**

executed concurrently herewith,

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, or its successors or assigns and agree that on request and without further consideration, but at the expense of said Company, I will communicate to said Company or its representatives or nominees any facts known to me respecting said inventions and improvements and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuation, reexamination and reissue applications, make all rightful oaths and generally do everything possible to aid said Company, its successors, assigns, and nominees to obtain and enforce proper patent protection for said invention and its improvements in all countries.

INVENTOR 1

Signature: [Signature] Date: August 24, 2011
Robert SOUBARAS

Witnessed by: [Signature] Date: August 26, 2011
Signature

Bruno GRATACOS
Printed Name of Witness

Witnessed by: [Signature] Date: August 26, 2011
Signature

Florencia Dos SANTOS
Printed Name of Witness

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

Robert SOUBARAS Date: _____

STATE OF

ss.

COUNTY OF

This _____ day of _____, _____ before me personally came the above-named Robert SOUBARAS, 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)

INVENTOR 2

Signature:
Yu ZHANG

Yu Zhang

Date:

Aug. 26, 2011

Witnessed by:

Andrew Ratcliffe
Signature

Date:

26/8/2011

Printed Name of Witness

ANDREW RATCLIFFE

Witnessed by:

Chris Davison
Signature

Date:

26/8/11

Printed Name of Witness

CHRISTOPHER DAVISON

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

Yu ZHANG

Date:

STATE OF

ss.

COUNTY OF

This _____ day of _____, _____ before me personally came the above-named **Yu ZHANG**, 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)