

## PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
Francois-Xavier GRESILLON	10/02/2012
RECEIVING PARTY DATA	
Name:	CGG 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:	13972183
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ATTORNEY DOCKET NUMBER:	0336-056/100199
NAME OF SUBMITTER:	Remus F. Fetea
Signature:	/Remus F. Fetea/
Date:	08/26/2013
Total Attachments: 2 source=2012-10-01_signed_Assignment_0336-056_100199#page1.tif source=2012-10-01_signed_Assignment_0336-056_100199#page2.tif	

OP \$40.00 13972183

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

**François-Xavier GRÉSILLON of Rully, 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. 13/972,183 for United States Patent currently entitled:

**VOLUMETRIC PIEZOELECTRIC SEISMIC WAVE SOURCE AND  
RELATED METHODS**

filed on August 21, 2013,

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/we 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.

The undersigned hereby grant(s) the law firm of Potomac Patent Group 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.

TITLE: VOLUMETRIC PIEZOELECTRIC SEISMIC WAVE SOURCE AND  
RELATED METHODS

INVENTOR 1

Signature: [Signature]

François-Xavier GRÉSILLON

Date: 2 October 2012

Witnessed by: ERIC FORGUES

Signature

Date: 2 October 2012

Printed Name of Witness

Witnessed by: Jean-Charles Fournier

Signature

Date: 02 October 2012

Printed Name of Witness

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

François-Xavier GRÉSILLON

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

STATE OF

ss.

COUNTY OF

This \_\_\_\_\_ day of \_\_\_\_\_, \_\_\_\_\_ before me personally came the above-named François-Xavier GRÉSILLON, 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)