

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	ASSIGNMENT	
CONVEYING PARTY DATA		
	Name	Execution Date
	THOMAS BARDAINNE	12/10/2013
RECEIVING PARTY DATA		
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	Property Type	Number
	Application Number:	15101549
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ATTORNEY DOCKET NUMBER:	005903.0155/100660-US-PCT	
NAME OF SUBMITTER:	CRYSTLE GARBADE	
SIGNATURE:	/Crystle Garbade/	
DATE SIGNED:	06/03/2016	
Total Attachments: 2		
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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,

Thomas BARDAINNE of Paris, 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. 61/912,071 for United States Patent currently entitled:

**RANDOM NON LINEAR JOINT INVERSION OF MICROSEISMIC EVENT LOCATION
AND MECHANISM.**

filed on December 05, 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, 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 Company or any of its designated agents or law firms representing it 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. 100660US-PRI "Assignment Signature Page"

TITLE: RANDOM NON LINEAR JOINT INVERSION OF MICROSEISMIC EVENT LOCATION AND MECHANISM.

INVENTOR 1

Signature: [Signature]
Thomas BARDAINNE

Date: 2013 12 10

Witnessed by: [Signature]
Signature

Date: 12/12/2013

DANIELA PANDOUR
Printed Name of Witness

Witnessed by: [Signature]
Signature

Date: 13/12/10

Pierre-Francois ROUX
Printed Name of Witness

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

Thomas BARDAINNE

Date: _____

STATE OF

ss.

COUNTY OF

This _____ day of _____, _____ before me personally came the above-named **Thomas BARDAINNE**, 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)