

## 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>
LAURENE MICHOU	07/28/2015
JEAN-CHARLES FERRAN	07/31/2015
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	CGG SERVICES S.A.
<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>
Application Number:	14919798
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(512)322-8388
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i>	
<b>Phone:</b>	512-322-2500
<b>Email:</b>	crystle.garbade@BakerBotts.com
<b>Correspondent Name:</b>	BAKER BOTTS L.L.P. PATENT DEPARTMENT
<b>Address Line 1:</b>	98 SAN JACINTO BLVD., SUITE 1500
<b>Address Line 4:</b>	AUSTIN, TEXAS 78701-4039
<b>ATTORNEY DOCKET NUMBER:</b>	005903.0136(100747-US-NP)
<b>NAME OF SUBMITTER:</b>	CRYSTLE GARBADE
<b>SIGNATURE:</b>	/Crystle Garbade/
<b>DATE SIGNED:</b>	10/22/2015
<b>Total Attachments: 3</b>	
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source=005903-0136-Assignment#page3.tif	

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,

**Laurene Michou of Paris FRANCE**

**Jean-Charles Ferran 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. 62/067,801 for United States Patent currently entitled:

**SYSTEM AND METHOD FOR PREDICTING THE FRONT ARRIVAL TIME IN  
SEISMIC MONITORING**

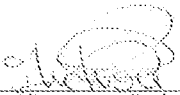
filed on October 23, 2014,

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 Baker Botts L.L.P. 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**.

Attorney Docket No. 005903.0136; CGG Ref. No. 100747-US-P5P "Assignment Signature Page"  
Title: SYSTEM AND METHOD FOR PREDICTING THE FRONT ARRIVAL TIME IN SEISMIC  
MONITORING

INVENTOR 1

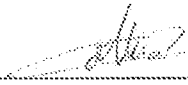
Signature:   
Laurene Michou

Date: 28/07/2015

Witnessed by:   
Signature

Date: 28/07/2015

BERRIN CECILE  
Printed Name of Witness

Witnessed by:   
Signature

Date: 28/07/2015

JULIEN COTTOLE  
Printed Name of Witness

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

\_\_\_\_\_  
Laurene Michou

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

STATE OF

ss.

COUNTY OF

This \_\_\_\_\_ day of \_\_\_\_\_, \_\_\_\_\_ before me personally came the above-named **Laurene Michou**, 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

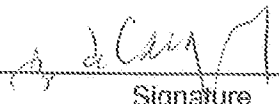
Signature:   
Jean-Charles Ferran

Date: 31<sup>st</sup> July 2015

Witnessed by:   
Signature

Date: 31<sup>st</sup> July 2015

Philippe HERRMANN  
Printed Name of Witness

Witnessed by:   
Signature

Date: 31-7-2015

BERT DE CALUVERAY  
Printed Name of Witness

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

\_\_\_\_\_  
Jean-Charles Ferran

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

STATE OF

ss.

COUNTY OF

This \_\_\_\_\_ day of \_\_\_\_\_, \_\_\_\_\_ before me personally came the above-named **Jean-Charles Ferran**, 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)