PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
FLORIAN DURET	09/10/2014
JULIEN COTTON	09/30/2014

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:	14912247

CORRESPONDENCE DATA

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ATTORNEY DOCKET NUMBER:	0336-428-2/100557
NAME OF SUBMITTER:	TINA JENKINS
SIGNATURE:	/Tina Jenkins/
DATE SIGNED:	02/16/2016

Total Attachments: 3

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PATENT 503694030 REEL: 037742 FRAME: 0448

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,

Florian DURET of Montigny-le-Bretonneux, FRANCE

Julien COTTON 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. 14/912,247 for United States Patent currently entitled:

INDUCED SEISMIC SOURCE METHOD AND DEVICE

filed on February 16, 2016

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. 0336-428/100557 "Assignment Signature Page"
TITLE: INDUCED SEISMIC SOURCE METHOD AND DEVICE

INVENTOR 1

Signature: Date: Settle 10th 2014

Witnessed by: Signature

Date: Settle 10th 2014

Printed Name of Witness

Date: Settle 10th 2014

Date: Settle 10th 2014

Date: Settle 10th 2014

Printed Name of Witness

SECT	ION BELOW IS FO	OR USE ONLY IF !	SIGNING IN PRESENCE OF A NOTARY
			Date:
Florian	DURET	***************************************	
STATE (OF .		
		SS.	
COUNT	Y OF		
Γhis	day of		before me personally came the above-
named F assignm	lorian DURET , to ent, who acknowle	me personally kno dged to me that he	wn as the individual who executed the foregoing //she executed the same of his/her own free will
or the p	urposes therein se	et forth.	
Seal			

(Notary Public)

INVENTOR 2	
Signature: Julien COTTON	Date: 30/09/2014
Julian COTTON	vae:
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Witnessed by:	Date: <u>3이 10의 12의 1</u>
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Printed Name of Witness	
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Witnessed by: Signature	Date: 22, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2,
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Printed Name of Witness	
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	Date:
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Julien COTTON	-D886.
Julien COTTON	Date:
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STATE OF ss.	
STATE OF ss. COUNTY OF This day of,	before me personally came the above-
STATE OF ss. COUNTY OF This day of, named Julien COTTON, to me personally known	before me personally came the above- a s the individual who executed the
STATE OF ss. COUNTY OF This day of,	before me personally came the above- a s the individual who executed the
STATE OF ss. COUNTY OF This day of named Julien COTTON, to me personally known foregoing assignment, who acknowledged to me	before me personally came the above- a s the individual who executed the
STATE OF ss. COUNTY OF This day of named Julien COTTON, to me personally known foregoing assignment, who acknowledged to me	before me personally came the above- a s the individual who executed the
STATE OF ss. COUNTY OF This day of named Julien COTTON, to me personally knowr foregoing assignment, who acknowledged to me own free will for the purposes therein set forth.	before me personally came the above- a s the individual who executed the

Docket No. 0336-428/100557 "Assignment Signature Page" TITLE: INDUCED SEISMIC SOURCE METHOD AND DEVICE

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PATENT REEL: 037742 FRAME: 0451