504373014 05/18/2017

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
CAN PENG	01/19/2017
ARASH JAFARGANDOMI	01/12/2017
HENNING HOEBER	01/27/2017
JAMES COOPER	01/12/2017
GORDON POOLE	01/13/2017

RECEIVING PARTY DATA

Name:	CGG SERVICES SAS
Street Address:	27 AVENUE CARNOT
City:	MASSY CEDEX
State/Country:	FRANCE
Postal Code:	91341

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15402830

CORRESPONDENCE DATA

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ATTORNEY DOCKET NUMBER:	0336-626-4/101027
NAME OF SUBMITTER:	AMANDA GOODE
SIGNATURE:	/AMANDA GOODE/
DATE SIGNED:	05/18/2017

Total Attachments: 6

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PATENT REEL: 042420 FRAME: 0102

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PATENT REEL: 042420 FRAME: 0103 Docket No. 0336-626-4/101027

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

Can PENG of Fulshear, TX, UNITED STATES

Arash JAFARGANDOMI of Horley, UNITED KINGDOM

Henning HOEBER of East Grinstead, GREAT BRITAIN

James COOPER of Redhill, Surrey, GREAT BRITAIN

Gordon POOLE of East Grinstead, GREAT BRITAIN

hereby sell and assign to **CGG Services SAS**, 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. <u>15/402.830</u> for United States Patent currently entitled:

AVA COMPLIANT PRE-STACK FREQUENCY SPECTRUM ENHANCEMENT OF SEISMIC DATA

filed on January 10, 2017.

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.

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Docket No. 0336-626-4/101027 "Assignment Signat TITLE: AVA COMPLIANT PRE-STACK FREQUENCY SP DATA	
INVENTOR 1	
Signature: 1934 Can PENG	Date: 01/19/2017
Witnessed by:Signature	Date: 01 /19 / 2017
Signature Jie Meng Printed Name of Wilhars	
Witnessed by: Signature	Date: 01/19/2017.
Tao LIN Printed Name of Witness	
SECTION BELOW IS FOR USE ONLY IF SIGN	
Can PENG	Date:
STATE OF ss. COUNTY OF	
This day of b named Can PENG, to me personally known as the assignment, who acknowledged to me that he/she for the purposes therein set forth.	individual who executed the foregoing
Seal	
(Notary Public)	

Page 2 of 6

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NVENTOR 2		
Signature: A+67ML	Date;	12.01.2017
Arash JAFARGANDOMI		
Witnessed by: Antima and Signature	Date: ,	15/01/2014
LORENZO CASASANTA		
Printed Name of Witness	Lancaliums Lancaliums Lancalium	
Witnessed by:	Natar	12/01/2012
Signature	Date.	
GRAHAM CORERIS		
Printed Name of Witness	Manag	
	e Taning	
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Arash JAFARGANDOMI STATE OF Ss. COUNTY OF	Date:	
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Arash JAFARGANDOMI STATE OF SS. COUNTY OF This day of	Date: before me ly known a	personally came the above- s the individual who executed th
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Docket No. 0336-626-4/101027 "Assignment Signature Page"

TITLE: AVA COMPLIANT PRE-STACK FREQUENCY SPECTRUM ENHANCEMENT OF SEISMIC

Page 3 of 6

(Notary Public)

DOCKET NO. 0336-626-4/101027 "ASSIGNMENT TITLE: AVA COMPLIANT PRE-STACK FREQUEN DATA	
INVENTOR 3	
Signature: <u>A Book</u>	Date: 27/01/2017
Henning HOEBER	에 가면 이 이 이 유튜 아래에 보았다. 그래
Witnessed by: Slignature	Date: 27/01/2017
SIMON KING	
Printed Name of Witness	되는 것이 되는 것이 되는 생각이 되면 생각이 되었다.
Witnessed by: <u>IMA) a mar Ma</u> Signature	Date: 27 11 12917
<u> 関いのもにっ Nowsのレー</u> Printed Name of Witness	
SECTION BELOW IS FOR USE ONLY IF	SIGNING IN PRESENCE OF A NOTARY
	Date:
Henning HOEBER	
STATE OF	
ss.	
This day of	before me personally came the above-
named Henning HOEBER, to me personall	y known as the individual who executed the o me that he/she executed the same of his/her

Page 4 of 6

Docket No. 0336-626-4/101027 "Assignme	
TITLE: AVA COMPLIANT PRE-STACK FREQUENTAL	JENCY SPECTRUM ENHANCEMENT OF SEISMIC
INVENTOR 4	
Signature:	Date: 12/01/17
James COOPER	
Witnessed by: Syna, Signature	Date: <u>12/01/17</u>
SIMON KWG Printed Name of Witness	anda eta ar Kabupaten ki
Filined (Value of VVIII)ess	
Com Hon	
Witnessed by: Sung Hom Signature	Date:
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SONG HOU	
Printed Name of Witness	antaria di Artegoria di Partino d Partino di Partino di P
SECTION BELOW IS FOR USE ONLY	IF SIGNING IN PRESENCE OF A NOTARY
	Date:
James COOPER	
STATE OF	en e
SS.	
COUNTY OF	
This day of,	before me personally came the above-
named James COOPER, to me personal	ly known as the individual who executed the if to me that he/she executed the same of his/her.
Seal	
(Motary Public	~ }

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Docket No. 0336-626-4/101027 "Assignmer	
DATA	NCY SPECTRUM ENHANCEMENT OF SEISMIC
INVENTOR 5	
Signature: G-Porte	Date: 13/1/17-
Gordon POOLE	
Witnessed by: SW4	Date: <u>13/1/17-</u>
Signature S - K (N) G	
Printed Name of Witness	
Witnessed by: Joseph Signature	Date: <u>13/1/17</u>
LORENZO CASASANTA	
Printed Name of Witness	
SECTION BELOW IS FOR USE ONLY I	F SIGNING IN PRESENCE OF A NOTARY
	I CIONISCI IN INCIDENCE OF A NOTANI
Gordon POOLE	in Anna Date:
STATE OF	
county of	
This day of	facilities and a second of the
named Gordon POOLE, to me personally k	o me that he/she executed the same of his/her
Seal	
(Notary Public)	•

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PATENT REEL: 042420 FRAME: 0109

RECORDED: 05/18/2017