

## 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>
	YI XIE	07/13/2018
	MIN WANG	07/13/2018
<b>RECEIVING PARTY DATA</b>		
<b>Name:</b>	CGG SERVICES SAS	
<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:	16032429
<b>CORRESPONDENCE DATA</b>		
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<b>ATTORNEY DOCKET NUMBER:</b>	0336-678-2/101190	
<b>NAME OF SUBMITTER:</b>	AMANDA GOODE	
<b>SIGNATURE:</b>	/AMANDA GOODE/	
<b>DATE SIGNED:</b>	07/13/2018	
<b>Total Attachments: 3</b>		
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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 SAS, a French Corporation, and my employer), and/or for other good and valuable consideration of which I/we acknowledge receipt, I/we,

**YI XIE of Singapore, SINGAPORE**

**Min WANG of Singapore, SINGAPORE**

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. 16/032,429 for United States Patent currently entitled:

**VISCO-ACOUSTIC FULL WAVEFORM INVERSION OF VELOCITY AND Q**

filed on July 11, 2018,

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. 0336-678-2/101190 "Assignment Signature Page"

TITLE: VISCO-ACOUSTIC FULL WAVEFORM INVERSION OF VELOCITY AND Q

INVENTOR 1

Signature: 谢毅  
YI XIE

Date: 13/07/2018

Witnessed by: 杨昆  
Signature

Date: 13/07/2018

Yang kunlun  
Printed Name of Witness

Witnessed by: Ye Guoyang  
Signature

Date: 13/07/2018

Ye Guoyang  
Printed Name of Witness

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

\_\_\_\_\_  
YI XIE

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

STATE OF

ss.

COUNTY OF

This \_\_\_\_\_ day of \_\_\_\_\_, \_\_\_\_\_ before me personally came the above-named YI XIE, 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)

Docket No. 0336-678-2/101190 "Assignment Signature Page"  
TITLE: VISCO-ACOUSTIC FULL WAVEFORM INVERSION OF VELOCITY AND Q

INVENTOR 2

Signature: 汪敏 Date: 13/07/2018  
Min WANG

Witnessed by: 王腾飞 Date: 13/07/2018  
Signature

Tengfei Wang  
Printed Name of Witness

Witnessed by: Chen Zhonghuan Date: 13-07-2018  
Signature

Chen Zhonghuan  
Printed Name of Witness

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

\_\_\_\_\_  
Min WANG Date: \_\_\_\_\_

STATE OF

ss.

COUNTY OF

This \_\_\_\_\_ day of \_\_\_\_\_, \_\_\_\_\_ before me personally came the above-named Min WANG, 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)