

## PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT5901780

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
SONG HOU	12/03/2019
STEFANO ANGIO	12/17/2019
HENNING HOEBER	12/31/2019
<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>
<b>Application Number:</b>	16738025
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(888)232-9785
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<b>Address Line 1:</b>	P.O. BOX 7999
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<b>ATTORNEY DOCKET NUMBER:</b>	0336-700-2/101218
<b>NAME OF SUBMITTER:</b>	JO ANN ENNIS
<b>SIGNATURE:</b>	/JOANNENNIS/
<b>DATE SIGNED:</b>	01/09/2020
<b>Total Attachments: 4</b>	
source=2020-01-09_SIGNED_Assignment_0336-700-2_101218#page1.tif	
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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,

**Song HOU of Crawley, UNITED KINGDOM**

**Stefano ANGIO of Croydon, UNITED KINGDOM**

**Henning HOEBER of Keltneyburn, UNITED KINGDOM**

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. \_\_\_\_\_ for United States Patent currently entitled:

**ANALYTICS AND MACHINE LEARNING METHOD FOR ESTIMATING  
PETROPHYSICAL PROPERTY VALUES**

filed on \_\_\_\_\_,

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. 0336-700-2/101218 "Assignment Signature Page"

**TITLE: ANALYTICS AND MACHINE LEARNING METHOD FOR ESTIMATING PETROPHYSICAL  
PROPERTY VALUES**

INVENTOR 1

Signature: Hou Song  
Song HOU

Date: 03/12/2019

Witnessed by: Chin Hang Lun  
Signature

Date: 03/12/2019

CHIN HANG LUN  
Printed Name of Witness

Witnessed by: [Signature]  
Signature

Date: 03/12/2019

Oleg Ovcharenko  
Printed Name of Witness

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

\_\_\_\_\_  
Song HOU

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

STATE OF

ss.

COUNTY OF

This \_\_\_\_\_ day of \_\_\_\_\_, \_\_\_\_\_ before me personally came the above-named Song HOU, 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. 0336-700-2/101218 "Assignment Signature Page"

TITLE: ANALYTICS AND MACHINE LEARNING METHOD FOR ESTIMATING PETROPHYSICAL  
PROPERTY VALUES

INVENTOR 2

Signature: Stefano ANGIO  
Stefano ANGIO

Date: 17/12/2019

Witnessed by: G. Poole  
Signature

Date: 17/12/2019

GORDON POOLE  
Printed Name of Witness

Witnessed by: S. King  
Signature

Date: 17/12/2019

SIMON KING  
Printed Name of Witness

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

\_\_\_\_\_  
Stefano ANGIO

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

STATE OF

ss.

COUNTY OF

This \_\_\_\_\_ day of \_\_\_\_\_, \_\_\_\_\_ before me personally came the above-named **Stefano ANGIO**, 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)

TITLE: ANALYTICS AND MACHINE LEARNING METHOD FOR ESTIMATING PETROPHYSICAL  
PROPERTY VALUES

INVENTOR 3

Signature: *Henning Hoerber*  
Henning HOEBER

Date: 31/12/19

Witnessed by: *Emma Kareno*  
Signature

Date: 31.12.2019

Emma Kareno  
Printed Name of Witness

Witnessed by: *Dr. Elizabeth Procter*  
Signature

Date: 31/12/2019

Dorothy Elizabeth Procter  
Printed Name of Witness

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

\_\_\_\_\_  
Henning HOEBER

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

STATE OF

ss.

COUNTY OF

This \_\_\_\_\_ day of \_\_\_\_\_, \_\_\_\_\_ before me personally came the above-named Henning HOEBER, 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)