

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
JONATHAN DOWNTON	01/16/2017
RECEIVING PARTY DATA	
Name:	CGG SERVICES SAS
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PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	15366240
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ATTORNEY DOCKET NUMBER:	0336-628-3/101042
NAME OF SUBMITTER:	AMANDA GOODE
SIGNATURE:	/AMANDA GOODE/
DATE SIGNED:	03/18/2019
Total Attachments: 2	
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Docket No. 0336-628-3/101042

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,

Jonathan DOWNTON of Calgary, Alberta, CANADA

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. 15/366,240 for United States Patent currently entitled:

**METHOD AND APPARATUS FOR ANALYZING FRACTURES USING AVOAZ
INVERSION**

filed on December 1, 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. 0336-628-3/101042 [Assignment Signature Page]

TITLE: METHOD AND APPARATUS FOR ANALYZING FRACTURES USING AVOAZ INVERSION

INVENTOR 1

Signature: [Signature]
Jonathan DOWNTON

Date: Jan 16, 2017

Witnessed by: [Signature]
Signature

Date: Jan 16, 2017

Arthur Lee
Printed Name of Witness

Witnessed by: [Signature]
Signature

Date: Jan 16, 2017

Brian Russell
Printed Name of Witness

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

Jonathan DOWNTON

Date: _____

STATE OF

ss.

COUNTY OF

This _____ day of _____, _____ before me personally came the above-named Jonathan DOWNTON, 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)