

PATENT ASSIGNMENT COVER SHEET

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 Stylesheet Version v1.2

EPAS ID: PAT4162992

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
SEAN CRAWLEY	11/18/2016
JAIME RAMOS-MARTINEZ	11/18/2016
ALEJANDRO A. VALENCIANO MAVILIO	11/18/2016
NIZAR CHEMINGUI	11/18/2016
RECEIVING PARTY DATA	
Name:	PGS GEOPHYSICAL AS
Street Address:	P.O. BOX 251 LILLEAKER
City:	OSLO
State/Country:	NORWAY
Postal Code:	0216
PROPERTY NUMBERS Total: 2	
Property Type	Number
Application Number:	15364585
Application Number:	62265657
CORRESPONDENCE DATA	
Fax Number:	(612)659-9344
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i>	
Phone:	612-659-9340
Email:	pgs.docketing@bipl.net
Correspondent Name:	BROOKS, CAMERON & HUEBSCH, PLLC
Address Line 1:	1201 MARQUETTE AVENUE SOUTH
Address Line 2:	SUITE 400
Address Line 4:	MINNEAPOLIS, MINNESOTA 55403
ATTORNEY DOCKET NUMBER:	PGS-15144-US-ORG1
NAME OF SUBMITTER:	ALEXANDER MARQUARDT
SIGNATURE:	/Alexander Marquardt/
DATE SIGNED:	11/30/2016
Total Attachments: 4	

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ASSIGNMENT

FOR GOOD AND VALUABLE CONSIDERATION, the receipt, sufficiency and adequacy of which are hereby acknowledged, the undersigned, do hereby:

SELL, ASSIGN AND TRANSFER to **PGS Geophysical AS** (the "Assignee"), having a place of business at **P.O. Box 251 Lilleaker, 0216, Oslo, Norway**, the entire right, title and interest in the application for United States Provisional Application Serial No. **62/265,657** which has been filed on **10-Dec-2015** and is entitled "**Full Waveform Inversion Gradient Computation by a Non-Specular Reflection Imaging Condition**" and United States Non-Provisional Application Serial No. 15/364,585, filed on November 30, 2016, and is entitled "**Velocity Model Update with an Inversion Gradient**" and for the United States and all other countries in and to all improvements which are disclosed in such application, and all divisional, continuing, substitute, renewal, reissue, provisional and all other applications for patent which have been or shall be filed in the United States and all other countries or international or regional patent offices on any of such improvements, all original and reissued patents which have been or shall be issued in the United States and all other countries or regional or international patent offices on such improvements, and specifically including the right to file applications in other countries or international or regional patent offices under the provisions of any convention or treaty and claim priority based on such United States application;


AUTHORIZE AND REQUEST the issuing authority to issue any and all United States and other patents granted on such improvements to the Assignee;

WARRANT AND COVENANT that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been or will be made to others by the undersigned, and that the full right to convey the same as herein expressed is possessed by the undersigned;

COVENANT, when requested and at the expense of the Assignee, to carry out in good faith the intent and purpose of this assignment, the undersigned will execute all divisional, continuing, substitute, renewal, reissue, and all other patent applications on any and all such improvements; execute all rightful oaths, declarations, assignments, powers of attorney and other

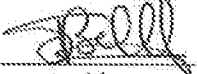
papers; communicate to the Assignee all facts known to the undersigned relating to such improvements and the history thereof; and generally do everything possible which the Assignee shall consider desirable for vesting title to such improvements in the Assignee, and for securing, maintaining and enforcing proper patent protection for such improvements;

TO BE BINDING on the heirs, assigns, representatives and successors of the undersigned and extend to the successors, assigns and nominees of the Assignee.

Signature:  Date: 11/18/2016
Name: **Sean Crawley**

Place of Signature Houston, Texas

BEFORE ME, the undersigned witness, on this 18th day of November, 2016, personally appeared Sean Crawley, known to me to be the person whose name is subscribed to the foregoing instrument and acknowledged to me that he executed the same of his own free will for the purposes and consideration therein expressed.


Witness's Signature

Sophie Bell
Witness's Printed Name

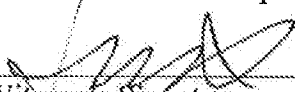
Witness's Address

Signature: 
Name: Jaime Ramos-Martinez

Date: 11/18/2016

Place of Signature Houston TX, USA

BEFORE ME, the undersigned witness, on this _____ day of _____, 2016, personally appeared _____, known to me to be the person whose name is subscribed to the foregoing instrument and acknowledged to me that he executed the same of his own free will for the purposes and consideration therein expressed.


Witness's Signature

SHAOPING LU
Witness's Printed Name

1518 Olive Garden, Houston TX 77077
Witness's Address

Signature: [Signature]
Name: Alejandro A. Valenciano Mavillo

Date: 11-18-2016

Place of Signature Houston, TX, USA

BEFORE ME, the undersigned witness, on this _____ day of _____, 2016, personally appeared _____, known to me to be the person whose name is subscribed to the foregoing instrument and acknowledged to me that he executed the same of his own free will for the purposes and consideration therein expressed.

[Signature]
Witness's Signature

ZIJIAN LIU

Witness's Printed Name

27906 Hunters Rock Ln, Katy TX 77494

Witness's Address

Signature: [Signature]
Name: Nizar Chemingui

Date: Nov-18-2016

Place of Signature Houston, TX, USA

BEFORE ME, the undersigned witness, on this 18 day of November, 2016, personally appeared Nizar Chemingui, known to me to be the person whose name is subscribed to the foregoing instrument and acknowledged to me that he executed the same of his own free will for the purposes and consideration therein expressed.

[Signature]
Witness's Signature

SHAOPING LU

Witness's Printed Name

1518 Olive Garden, Houston TX 77077