PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

EPAS ID: PAT7178477

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
PGS GEOPHYSICAL AS	02/12/2021

RECEIVING PARTY DATA

Name:	OCEAN FLOOR GEOPHYSICS, INC.
Street Address:	B108-9000 BILL FOX WAY
City:	BURNABY, BC
State/Country:	CANADA

PROPERTY NUMBERS Total: 3

Property Type	Number
Patent Number:	7834632
Patent Number:	8896314
Patent Number:	8896313

CORRESPONDENCE DATA

Fax Number: (303)863-0223

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.

Phone: 3038639700
Email: wwood@sheridanross.com
Correspondent Name: SHERIDAN ROSS P.C.
Address Line 1: 1560 BROADWAY
Address Line 2: SUITE 1200
Address Line 4: DENVER, COLORADO 80202

ATTORNEY DOCKET NUMBER:	5874PGS-5, 16, 28
NAME OF SUBMITTER:	ERIC A. BOMKAMP
SIGNATURE:	/Eric A. Bomkamp/
DATE SIGNED:	02/16/2022

Total Attachments: 16
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Worldwide Assignment

This INTELLECTUAL PROPERTY ASSIGNMENT (this "Assignment"), dated as of July 16, 2021 (the "Effective Date"), is made and entered into by and between:

(1) **PGS Geophysical AS**, a company organized and existing under the laws of Norway, having its place of business at Lilleakerveien 4C, 0283 Oslo, Norway and registered number 960 563 085 ("ASSIGNOR); and

(2) **Ocean Floor Geophysics, Inc.**, a company organized and existing under the laws of British Columbia, Canada, having its place of business at B108-9000 Bill Fox Way, Burnaby, BC, Canada and registered office at 2600-1066 West Hastings Street, Vancouver, BC, Canada and registered number BC0793984 ("ASSIGNEE")

ASSIGNOR and ASSIGNEE are each referred to individually as a "Party" and collectively as the "Parties."

WHEREAS, ASSIGNOR or its affiliate and ASSIGNEE entered into a Sale and Purchase Agreement having an effective date of August 31, 2020, as amended on July 16, 2021 (the "SPA"); and

WHEREAS, in accordance with the SPA, ASSIGNOR wishes to assign, and ASSIGNEE wishes to receive, ASSIGNOR's right, title, and interest in the patents and patent applications identified in Schedule A attached hereto (collectively referred to as the "PATENTS");

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, ASSIGNOR does hereby assign to ASSIGNEE, its successors, legal representatives, and assigns its entire right, title, and interest in and to the inventions disclosed by the PATENTS, all applications claiming benefit of the PATENTS, including, but not limited to, all provisional, nonprovisional, divisions and continuations of the PATENTS, and all patents that may be granted thereon in and throughout the United States and in all foreign countries, including without limitation utility models, design patents, certificates of invention and equivalent rights worldwide, and all reissues and reexaminations thereof, including, with respect to the PATENTS, (a) all rights arising under or pursuant to any and all international agreements, treaties or laws, including the right to file applications for patents, design patents, utility models, certificates of invention or other governmental grants and equivalent rights worldwide, and to claim the same priority rights, under the patent laws of the United States, the applicable laws of the country in which any such application is filed, the International Convention for the Protection of Industrial Property and any other international union, convention, agreement and treaty; and (b) all rights in and to causes of action and enforcement rights for the inventions and any resulting patents, including all rights to pursue damages, injunctive relief and other remedies for past, present and future infringement of the inventions and resulting patents, and to hold for ASSIGNEE'S sole use and benefit all recoveries, rights, and benefits arising from all such suits;

AND ASSIGNOR authorizes and requests the Director of Patents of the United States, and any Official of any country or countries foreign to the United States, whose duty is to issue patents or other evidence or forms of industrial property to issue the same for the inventions to ASSIGNEE, its successors, legal representatives, and assigns in accordance with the terms of this Assignment;

AND ASSIGNOR further hereby authorizes ASSIGNEE, or its attorneys or agents, to insert the correct Application Number and Filing Date into this Assignment, if none is indicated on the Effective Date of this agreement.

The parties have executed this Assignment on the date(s) indicated below.

PGS GEOPHYSICAL AS

ASSIGNOR

By: _____

Printed Name: Christin Steen-Nilsen

Title: Director

Date: 02/12/2021

[Statement of Witness]

IN WITNESS WHEREOF, I, Pernille Undseth, hereby declare

(Printed name of Witness)

that I was personally present and did see ASSIGNOR sign and execute the assignment.

_____ 02/12/2021

(Signature of Witness) Date

PGS GEOPHYSICAL AS

ASSIGNOR

By: _____

Printed Name: Gottfred Langseth

Title: Director

Date: 02/12/2021

[Statement of Witness]

IN WITNESS WHEREOF, I, Pernille Undseth, hereby declare

(Printed name of Witness)

that I was personally present and did see ASSIGNOR sign and execute the assignment.

_____ 02/12/2021

(Signature of Witness) Date

OCEAN FLOOR GEOPHYSICS, INC.

ASSIGNEE

By: M. Kowalczyk

Printed Name: Matthew Kowalczyk

Title: CEO

Date: November 29th, 2021

[Statement of Witness]

IN WITNESS WHEREOF, I, Dominique Kowalczyk, hereby declare

(Printed name of Witness)

that I was personally present and did see ASSIGNEE sign and execute the assignment.

(Signature of Witness) November 29th, 2021

Date

Schedule A

Patents

File Number	Title	Country	Patent #	Grant Date	Application #	Priority
PGS-05-12AU	Low Noise, Towed Electromagnetic System for Subsurface Exploration	AU	2007201186	6/21/2012	2007201186	3/29/2006
PGS-05-12BR	Low Noise, Towed Electromagnetic System for Subsurface Exploration	BR	PI0701248-9	12/11/2018	PI0701248-9	3/29/2006
PGS-05-12CA	Low Noise, Towed Electromagnetic System for Subsurface Exploration	CA	2582882	6/26/2013	2582882	3/29/2006
PGS-05-12CN	Low Noise, Towed Electromagnetic System for Subsurface Exploration	CN	ZL200710093637	10/5/2011	200710093637.X	3/29/2006
PGS-05-12GB	Low Noise, Towed Electromagnetic System for Subsurface Exploration	GB	2436709	4/21/2010	0705675.7	3/29/2006
PGS-05-12GBDIV1	Low Noise, Towed Electromagnetic System for Subsurface Exploration	GB	2442849	8/20/2008	0719445.9	3/29/2006
PGS-05-12ID	Low Noise, Towed Electromagnetic System for Subsurface Exploration	ID	ID P0027119	12/3/2010	P-00200700142	3/29/2006
PGS-05-12IN	Low Noise, Towed Electromagnetic System for Subsurface Exploration	IN	273943	6/30/2016	387/KOL/2007	3/29/2006
PGS-05-12IN-DIV1	Low Noise, Towed Electromagnetic System for Subsurface Exploration	IN			201635022482	3/29/2006
PGS-05-12MX	Low Noise, Towed Electromagnetic System for Subsurface Exploration	MX	273534	1/20/2010	MX/A/2007/003728	3/29/2006
PGS-05-12MY	Low Noise, Towed Electromagnetic System for Subsurface Exploration	MY	MY-143299-A	4/15/2011	PI 20070452	3/29/2006
PGS-05-12MY-DIV	Low Noise, Towed Electromagnetic System for Subsurface Exploration	MY	MY-144930-A	11/30/2011	PI 2010002180	3/29/2006
PGS-05-12NO	Low Noise, Towed Electromagnetic System for Subsurface Exploration	NO	336478	9/7/2015	20071500	3/29/2006
PGS-05-12US-NP	Low Noise, Towed Electromagnetic System for Subsurface Exploration	US	7737698	6/15/2010	11/520228	3/29/2006
PGS-07-05AU	Cable-Type Electromagnetic Receiver System for Subsurface Exploration	AU	2008271640	8/15/2013	2008271640	6/29/2007
PGS-07-05BR	Cable-Type Electromagnetic Receiver System for Subsurface Exploration	BR			PI0812752-2	6/29/2007
PGS-07-05CA	Cable-Type Electromagnetic Receiver System for Subsurface Exploration	CA	2691422	10/15/2013	2691422	6/29/2007
PGS-07-05CN	Cable-Type Electromagnetic Receiver System for Subsurface Exploration	CN	200880022577.5	8/21/2013	200880022577.5	6/29/2007

File Number	Title	Country	Patent #	Grant Date	Application #	Priority
PGS-07-05-EP/FR	Marine Electromagnetic Survey Cable and System	FR	2174167	9/12/2018	08759315.8	6/29/2007
PGS-07-05-EP/GB	Marine Electromagnetic Survey Cable and System	GB	2174167	9/12/2018	08759315.8	6/29/2007
PGS-07-05-EP/NO	Marine Electromagnetic Survey Cable and System	NO	2174167	9/12/2018	08759315.8	6/29/2007
PGS-07-05ID	Cable-Type Electromagnetic Receiver System for Subsurface Exploration	ID	ID P0029771	12/15/2011	W-00201000334	6/29/2007
PGS-07-05IN	Cable-Type Electromagnetic Receiver System for Subsurface Exploration	IN	283812	5/31/2017	4442/KOLNP/2009	6/29/2007
PGS-07-05MX	Cable-Type Electromagnetic Receiver System for Subsurface Exploration	MX	288950	8/2/2011	MX/A/2010/000325	6/29/2007
PGS-07-05MY	Cable-Type Electromagnetic Receiver System for Subsurface Exploration	MY	MY-150728-A	2/28/2014	PI 20095595	6/29/2007
PGS-07-05US	Cable-Type Electromagnetic Receiver System for Subsurface Exploration	US	7602191	10/13/2009	11/823,940	6/29/2007
PGS-07-14AU	Receiver Streamer System and Method for Marine Electromagnetic Surveying	AU	2008243192	12/6/2012	2008243192	12/3/2007
PGS-07-14BR	Receiver Streamer System and Method for Marine Electromagnetic Surveying	BR	PI0805309-0	10/16/2018	PI0805309-0	12/3/2007
PGS-07-14CA	Receiver Streamer System and Method for Marine Electromagnetic Surveying	CA	2643545	5/15/2012	2643545	12/3/2007
PGS-07-14EP	Receiver Streamer System and Method for Marine Electromagnetic Surveying	EP	2068176	5/4/2016	08105673.1	12/3/2007
PGS-07-14EP/FR	Receiver Streamer System and Method for Marine Electromagnetic Surveying	FR	2068176	5/4/2016	08105673.1	12/3/2007
PGS-07-14EP/GB	Receiver Streamer System and Method for Marine Electromagnetic Surveying	GB	2068176	5/4/2016	08105673.1	12/3/2007
PGS-07-14EP/NL	Receiver Streamer System and Method for Marine Electromagnetic Surveying	NL	2068176	5/4/2016	08105673.1	12/3/2007
PGS-07-14EP/NO	Receiver Streamer System and Method for Marine Electromagnetic Surveying	NO	2068176	5/4/2016	08105673.1	12/3/2007
PGS-07-14ID	Receiver Streamer System and Method for Marine Electromagnetic Surveying	ID	ID P0032341	11/26/2012	P-00200800772	12/3/2007
PGS-07-14MX	Receiver Streamer System and Method for Marine Electromagnetic Surveying	MX	282795	1/13/2011	MX/A/2008/015467	12/3/2007
PGS-07-14MY	Receiver Streamer System and Method for Marine Electromagnetic Surveying	MY	MY149081-A	7/15/2013	PI 20084600	12/3/2007
PGS-07-14US	Receiver Streamer System and Method for Marine Electromagnetic Surveying	US	7834632	11/16/2010	11/998,971	12/3/2007

File Number	Title	Country	Patent #	Grant Date	Application #	Priority
PGS-07-17BR	Fiber Optic System for Electromagnetic Surveying	BR			PI0816462-2	9/4/2007
PGS-07-17EP/FR	Fiber Optic System for Electromagnetic Surveying	FR	2191304	12/5/2018	08795756.9	9/4/2007
PGS-07-17EP/GB	Fiber Optic System for Electromagnetic Surveying	GB	2191304	12/5/2018	08795756.9	9/4/2007
PGS-07-17EP/NO	Fiber Optic System for Electromagnetic Surveying	NO	2191304	12/5/2018	08795756.9	9/4/2007
PGS-07-17EP-DIV1	Fiber Optic System for Electromagnetic Surveying	EP			18198128.3	9/4/2007
PGS-07-17USDIV1	Fiber Optic System for Electromagnetic Surveying	US	8035393	10/11/2011	12/807010	9/4/2007
PGS-07-21AU	Electrode Structure and Streamer Made Therewith for Marine Electromagnetic Surveying	AU	2008203456	5/9/2013	2008203456	9/21/2007
PGS-07-21GB	Electrode Structure and Streamer Made Therewith for Marine Electromagnetic Surveying	GB	2453026	11/16/2011	0816479.0	9/21/2007
PGS-07-21NO	Electrode Structure and Streamer Made Therewith for Marine Electromagnetic Surveying	NO	341153	9/4/2017	20083170	9/21/2007
PGS-07-21US	Electrode Structure and Streamer Made Therewith for Marine Electromagnetic Surveying	US	7446535	11/4/2008	11/903462	9/21/2007
PGS-08-23AU	Method and System for Calibrating Streamer Electrodes in a Marine Electromagnetic Survey System	AU	2010200849	11/21/2013	2010200849	3/16/2009
PGS-08-23BR	Method and System for Calibrating Streamer Electrodes in a Marine Electromagnetic Survey System	BR			PI1000644-3	3/16/2009
PGS-08-23CA	Method and System for Calibrating Streamer Electrodes in a Marine Electromagnetic Survey System	CA	2696414	12/11/2012	2696414	3/16/2009
PGS-08-23EP	Method and System for Calibrating Streamer Electrodes in a Marine Electromagnetic Survey System	EP			10155085.3	3/16/2009
PGS-08-23ID	Method and System for Calibrating Streamer Electrodes in a Marine Electromagnetic Survey System	ID	IDP000043647	12/5/2016	P-00201000209	3/16/2009
PGS-08-23MX	Method and System for Calibrating Streamer Electrodes in a Marine	MX	300325	6/15/2012	MX/A/2010/002901	3/16/2009

File Number	Title	Country	Patent #	Grant Date	Application #	Priority
	Electromagnetic Survey System					
PGS-08-23MY	Method and System for Calibrating Streamer Electrodes in a Marine Electromagnetic Survey System	MY	MY-151356-A	5/15/2014	PI 2010001084	3/16/2009
PGS-08-23US	Method and System for Calibrating Streamer Electrodes in a Marine Electromagnetic Survey System	US	8198899	6/12/2012	12/381,689	3/16/2009
PGS-10-09US	Electrical Power System for Towed Electromagnetic Survey Streamers	US	8575938	11/5/2013	12/799188	4/20/2010
PGS-10-10FR	Switchable Front-End Measurement Unit for Towed Marine Electromagnetic Survey Cables	FR	11 53597	6/5/2015	FR1153597	4/27/2010
PGS-10-10US-CIP1	Switchable Front-End Measurement Unit for Towed Marine Electromagnetic Streamer Cables	US	9778036	10/3/2017	14/282,398	4/27/2010
PGS-10-12AU	MULTIPLE COMPONENT ELECTROMAGNETIC SURVEY SIGNAL ACQUISITION METHOD	AU	2011201611	1/8/2015	2011201611	5/5/2010
PGS-10-12BR	MULTIPLE COMPONENT ELECTROMAGNETIC SURVEY SIGNAL ACQUISITION METHOD	BR			PI1102263-9	5/5/2011
PGS-10-12GB	MULTIPLE COMPONENT ELECTROMAGNETIC SURVEY SIGNAL ACQUISITION METHOD	GB	2480149	7/9/2014	1107448.1	5/5/2010
PGS-10-12NO	MULTIPLE COMPONENT ELECTROMAGNETIC SURVEY SIGNAL ACQUISITION METHOD	NO	337761	6/20/2016	20110652	5/5/2010
PGS-10-12NO-DIV1	MULTIPLE COMPONENT ELECTROMAGNETIC SURVEY SIGNAL ACQUISITION METHOD	NO	338987	11/7/2016	20160354	5/5/2010
PGS-10-12US	MULTIPLE COMPONENT ELECTROMAGNETIC SURVEY SIGNAL ACQUISITION METHOD	US	8,896,314	11/25/2014	12/799,941	5/5/2010
PGS-10-22AU	In-Line and Broadside Marine Electromagnetic Surveying	AU	2012261761	6/18/2015	2012261761	12/27/2011
PGS-10-22BR	In-Line and Broadside Marine Electromagnetic Surveying	BR			BR102012033262-0	12/27/2011
PGS-10-22GB	In-Line and Broadside Marine Electromagnetic Surveying	GB	2498078	4/8/2015	1222817.7	12/27/2011
PGS-10-22GB-DIV1	In-Line and Broadside Marine Electromagnetic Surveying	GB	2520643	12/18/2012	1500412.0	12/27/2011

File Number	Title	Country	Patent #	Grant Date	Application #	Priority
PGS-10-22NO	In-Line and Broadside Marine Electromagnetic Surveying	NO			20121531	12/27/2011
PGS-10-22US	In-Line and Broadside Marine Electromagnetic Surveying	US	8928324	1/6/2014	13/337696	12/27/2011
PGS-10-30EP/FR	Electromagnetic Sensor Cable and Electrical Configuration Therefor	FR	2594966	1/8/2020	12193665.2	11/21/2011
PGS-10-30EP/GB	Electromagnetic Sensor Cable and Electrical Configuration Therefor	GB	2594966	1/8/2020	12193665.2	11/21/2011
PGS-10-30EP/NO	Electromagnetic Sensor Cable and Electrical Configuration Therefor	NO	2594966	1/8/2020	12193665.2	11/21/2011
PGS-10-30US	Electromagnetic Sensor Cable and Electrical Configuration Therefor	US	8816690	8/26/2014	13/276,766	10/19/2011
PGS-10-32BR	Acquisition System and Method for Towed Electromagnetic Sensor Cable and Source	BR			BR102013011326-3	5/9/2012
PGS-10-32FR	Acquisition System and Method for Towed Electromagnetic Sensor Cable and Source	FR			13 54168	5/9/2012
PGS-10-32GB	Acquisition System and Method for Towed Electromagnetic Sensor Cable and Source	GB	2504171	3/16/2016	1308175.7	5/9/2012
PGS-10-32NO	Acquisition System and Method for Towed Electromagnetic Sensor Cable and Source	NO			20130575	5/9/2012
PGS-10-32US	Acquisition System and Method for Towed Electromagnetic Sensor Cable and Source	US	8994378	3/31/2015	13/467,261	5/9/2012
PGS-10-32US-DIV1	Acquisition System and Method for Towed Electromagnetic Sensor Cable and Source	US	9459368	10/4/2016	14/518,233	5/9/2012
PGS-10-33BR	Electromagnetic Sensor Cable and Electrical Configuration Therefor	BR			BR102012023666-4	9/19/2011
PGS-10-33FR	Electromagnetic Sensor Cable and Electrical Configuration Therefor	FR			12 58728	9/19/2011
PGS-10-33FR-DIV1	Electromagnetic Sensor Cable and Electrical Configuration Therefor	FR			17 57530	9/19/2011
PGS-10-33GB	Electromagnetic Sensor Cable and Electrical Configuration Therefor	GB	2494759	9/3/2012	1215611.3	9/19/2011
PGS-10-33NO	Electromagnetic Sensor Cable and Electrical Configuration Therefor	NO	344078	9/2/2019	20120945	9/19/2011

File Number	Title	Country	Patent #	Grant Date	Application #	Priority
PGS-10-33NO-DIV1	Electromagnetic Sensor Cable and Electrical Configuration Therefor	NO	344077	9/2/2019	20171078	9/19/2011
PGS-10-33US	Electromagnetic Sensor Cable and Electrical Configuration Therefor	US	8710845	4/29/2014	13/236,158	9/19/2011
PGS-10-38FR	High Voltage DC Transmission for Electromagnetic Source	FR			12 51860	3/1/2011
PGS-10-38GB	High Voltage DC Transmission for Electromagnetic Source	GB	2488658	8/6/2014	1203553.1	3/1/2011
PGS-10-38NO	High Voltage DC Transmission for Electromagnetic Source	NO	344512	1/20/2020	20120176	3/1/2011
PGS-10-38US	High Voltage DC Transmission for Electromagnetic Source	US	8797038	8/5/2014	12/932,592	3/1/2011
PGS-10-39FR	Electrode Structure for Marine Electromagnetic Geophysical Survey Transducers	FR	1161184	7/4/2014	1161184	12/16/2010
PGS-10-39GB	Electrode Structure for Marine Electromagnetic Geophysical Survey Transducers	GB	2486519	1/15/2014	1118693.9	12/16/2010
PGS-10-39NO	Electrode Structure for Marine Electromagnetic Geophysical Survey Transducers	NO	336364	8/10/2015	20111463	12/16/2010
PGS-10-39US	Electrode Structure for Marine Electromagnetic Geophysical Survey Transducers	US	8643374	2/4/2014	12/928677	12/16/2010
PGS-11-03FR	Sensor Arrangement for Detecting Motion Induced Noise in Towed Marine Electromagnetic Sensor Streamers	FR	1252396	7/17/2015	12 52396	3/18/2011
PGS-11-03GB	Sensor Arrangement for Detecting Motion Induced Noise in Towed Marine Electromagnetic Sensor Streamers	GB	2489099	7/30/2014	1204476.4	3/18/2011
PGS-11-03NO	Sensor Arrangement for Detecting Motion Induced Noise in Towed Marine Electromagnetic Sensor Streamers	NO	344684	3/2/2020	20120272	3/18/2011
PGS-11-03US	Sensor Arrangement for Detecting Motion Induced Noise in Towed Marine Electromagnetic Sensor Streamers	US	8514656	8/20/2013	13/051,489	3/18/2011
PGS-11-17EP	Power Converter and Electrode Combinations for	EP	2584380	5/8/2019	12188855.6	10/14/2011

File Number	Title	Country	Patent #	Grant Date	Application #	Priority
	Electromagnetic Survey Source					
PGS-11-17EP/FR	Power Converter and Electrode Combinations for Electromagnetic Survey Source	FR	2584380	5/8/2019	12188855.6	10/14/2011
PGS-11-17EP/GB	Power Converter and Electrode Combinations for Electromagnetic Survey Source	GB	2584380	5/8/2019	12188855.6	10/14/2011
PGS-11-17EP/NO	Power Converter and Electrode Combinations for Electromagnetic Survey Source	NO	2584380	5/8/2019		10/14/2011
PGS-11-17US	Power Converter and Electrode Combinations for Electromagnetic Survey Source	US	9081106	7/14/2015	13/274,493	10/17/2011
PGS-11-25BR	Methods and Apparatus for Adaptive Source Electromagnetic Surveying	BR			BR102013004831-3	2/29/2012
PGS-11-25GB	Methods and Apparatus for Adaptive Source Electromagnetic Surveying	GB	2501359	8/30/2017	1302835.2	2/29/2012
PGS-11-25NO	Methods and Apparatus for Adaptive Source Electromagnetic Surveying	NO			20130254	2/29/2012
PGS-11-25US	Methods and Apparatus for Adaptive Source Electromagnetic Surveying	US	8797036	8/5/2014	13/408,831	2/29/2012
PGS-11-25US-CON1	Methods and Apparatus for Adaptive Source Electromagnetic Surveying	US	9864088	1/9/2018	14/271,162	2/29/2012
PGS-11-29AU	Methods and Apparatus for Rapid Determination of Target Depth and Transverse Resistance	AU	2012247094	9/3/2015	2012247094	11/30/2011
PGS-11-29BR	Methods and Apparatus for Rapid Determination of Target Depth and Transverse Resistance	BR			BR102012030628-0	11/30/2011
PGS-11-29EP/GB	Methods and Apparatus for Rapid Determination of Target Depth and Transverse Resistance	GB	2600177	1/8/2020	12195071.1	11/30/2011
PGS-11-29EP/NO	Methods and Apparatus for Rapid Determination of Target Depth and Transverse Resistance	NO	2600177	1/8/2020	12195071.1	11/30/2011
PGS-11-29US	Methods and Apparatus for Rapid Determination of Target Depth and Transverse Resistance	US	8990019	3/14/2015	13/307,640	11/30/2011
PGS-11-30BR	System and Method for In-Sea Electrode Conditioning	BR			BR102013001915-1	1/25/2012
PGS-11-30GB	System and Method for In-Sea Electrode Conditioning	GB	2498868	11/29/2017	1301312.3	1/25/2012

File Number	Title	Country	Patent #	Grant Date	Application #	Priority
PGS-11-30NO	System and Method for In-Sea Electrode Conditioning	NO			20130105	1/25/2012
PGS-11-30US	System and Method for In-Sea Electrode Conditioning	US	9372280	6/21/2016	13/358,255	1/25/2012
PGS-11-30US-DIV1	System and Method for In-Sea Electrode Conditioning	US	9696449	7/4/2017	15/162,223	1/25/2012
PGS-11-33NO	Electromagnetic Receiver Assembly for Marine Electromagnetic Surveying	NO	338148	8/1/2016	20130354	3/15/2012
PGS-11-33US	Electromagnetic Receiver Assembly for Marine Electromagnetic Surveying	US	8896313	11/25/2014	13/421683	3/15/2012
PGS-11-37US	Method and System of Determining Parameters Associated With a Hydrocarbon Bearing Formation Beneath a Sea Bed	US	9606256	3/28/2017	13/313,150	12/7/2011
PGS-11-46GB-DIV1	Stationary Source for Marine Electromagnetic Surveying Background	GB	2521779	12/23/2015	1504107.2	3/1/2012
PGS-11-46NO	Stationary Source for Marine Electromagnetic Surveying Background	NO			20130301	3/1/2012
PGS-11-46US	Stationary Source for Marine Electromagnetic Surveying Background	US	9239401	1/19/2016	13/409,531	3/1/2012
PGS-12-16US	Method and System for Processing Data Acquired in a Marine Electromagnetic Survey	US	9335434	5/10/2016	13/667,484	11/2/2012
PGS-12-21US	Methods and Systems for Using a Combined Electromagnetic Source Electrode and Deflector	US	9664811	5/30/2017	13/719,456	12/19/2012
PGS-12-23AU	Systems and Methods for Removal of Swell Noise in Marine Electromagnetic Surveys	AU	2013257511	9/21/2017	2013257511	12/4/2012
PGS-12-23BR	Systems and Methods for Removal of Swell Noise in Marine Electromagnetic Surveys	BR			BR102013031149-9	12/4/2012
PGS-12-23GB	Systems and Methods for Removal of Swell Noise in Marine Electromagnetic Surveys	GB	2508738	12/6/2017	1321229.5	12/4/2012
PGS-12-23NO	Systems and Methods for Removal of Swell Noise in Marine Electromagnetic Surveys	NO			20131554	12/4/2012
PGS-12-23US	Systems and Methods for Removal of Swell Noise in Marine Electromagnetic Surveys	US	9625600	4/18/2017	13/705,017	12/4/2012
PGS-12-36US	Uncertainty-Based Frequency-Selected Inversion	US	9575205	2/21/2017	13/744,173	1/17/2013

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PGS-12-38US	Method and System for Suppressing Swell-Induced Electromagnetic Noise	US	9,274,241	3/1/2016	13/828,239	3/14/2013
PGS-12-41FR	Silicon Controlled Rectifier Control of Deep Towed Electromagnetic Source	FR			14 51837	3/6/2013
PGS-12-41GB	Silicon Controlled Rectifier Control of Deep Towed Electromagnetic Source	GB	2511636	1/29/2020	1402902.9	3/6/2013
PGS-12-41NO	Silicon Controlled Rectifier Control of Deep Towed Electromagnetic Source	NO			20140249	3/6/2013
PGS-12-41US	Silicon Controlled Rectifier Control of Sub-Sea Towed Electromagnetic Source	US	9632197	4/25/2017	13/787,303	3/6/2013
PGS-12-47AU	Systems and Methods for Measuring Water Properties in Electromagnetic Marine Surveys	AU	2014201354	3/22/2018	2014201354	3/12/2013
PGS-12-47GB	Systems and Methods for Measuring Water Properties in Electromagnetic Marine Surveys	GB	2511936	8/24/2016	1403943.2	3/12/2013
PGS-14118-AU	Joint Estimation of Electromagnetic Earth Responses and Ambient Noise	AU			2015309050	8/29/2014
PGS-14118-BR	Joint Estimation of Electromagnetic Earth Responses and Ambient Noise	BR			BR112017003401-8	8/29/2014
PGS-14118-EP/GB	Joint Estimation of Electromagnetic Earth Responses and Ambient Noise	GB	3186663	2/27/2019	15759665.1	8/29/2014
PGS-14118-EP/NO	Joint Estimation of Electromagnetic Earth Responses and Ambient Noise	NO	3186663	2/27/2019	15759665.1	8/29/2014
PGS-14118-MX	Joint Estimation of Electromagnetic Earth Responses and Ambient Noise	MX			MX/A/2017/002601	8/29/2014
PGS-14118-MY	Joint Estimation of Electromagnetic Earth Responses and Ambient Noise	MY			PI 2017700494	8/29/2014
PGS-14118-US-ORG1	Joint Estimation of Electromagnetic Earth Responses and Ambient Noise	US	10613246	4/7/2020	15/502,146	8/29/2014
PGS-14129-AU	Electrically Isolated Streamer Section	AU			2015238805	10/20/2014
PGS-14129-BR	Electrically Isolated Streamer Section	BR			BR102015026227-2	10/20/2014

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PGS-14129-US-ORG1	Electrically Isolated Streamer Section	US	10042073	8/7/2018	14/594,389	10/20/2014
PGS-14-19US	Marine Streamer Connector Used as an Electrode	US	10605947	3/31/2020	14/561,332	6/18/2014
PGS-14-20-AU	Methods and Apparatus for Electromagnetic Surveying Using Dynamically-Selected Source Waveforms	AU			2015329938	10/10/2014
PGS-14-20-BR	Methods and Apparatus for Electromagnetic Surveying Using Dynamically-Selected Source Waveforms	BR			BR112017006731-5	10/10/2014
PGS-14-20-CA	Methods and Apparatus for Electromagnetic Surveying Using Dynamically-Selected Source Waveforms	CA			2962130	10/10/2014
PGS-14-20-CN	Methods and Apparatus for Electromagnetic Surveying Using Dynamically-Selected Source Waveforms	CN			201580054903.0	10/10/2014
PGS-14-20-EP	Methods and Apparatus for Electromagnetic Surveying Using Dynamically-Selected Source Waveforms	EP			15781893.1	10/10/2014
PGS-14-20-ID	Methods and Apparatus for Electromagnetic Surveying Using Dynamically-Selected Source Waveforms	ID	IDP000063558	10/15/2019	P-00201702174	10/10/2014
PGS-14-20-MX	Methods and Apparatus for Electromagnetic Surveying Using Dynamically-Selected Source Waveforms	MX	364463	4/26/2019	MX/A/2017/004644	10/10/2014
PGS-14-20-MY	Methods and Apparatus for Electromagnetic Surveying Using Dynamically-Selected Source Waveforms	MY			PI 2017701106	10/10/2014
PGS-14-20US	Methods and Apparatus for Electromagnetic Surveying Using Dynamically-Selected Source Waveforms	US	9766361	9/19/2017	14/511,625	10/10/2014
PGS-15106-US-ORG1	Joint Inversion of Subsurface Resistivity and Noise Parameters	US	10274635	4/30/2019	15/002,101	2/16/2015
PGS-15112-US-ORG1	SEISMIC GUIDED INVERSION OF ELECTROMAGNETIC SURVEY DATA	US	10197702	2/5/2019	15/092,786	4/27/2015
PGS-15122-AU	Direct Resistivity Determination	AU			2016210664	8/31/2015
PGS-15122-BR	Direct Resistivity Determination	BR			BR102016019228-5	8/31/2015
PGS-15122-EP	Direct Resistivity Determination	EP			16186030.9	8/31/2015
PGS-15122-MX	Direct Resistivity Determination	MX			MX/A/2016/011258	8/31/2015

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PGS-15122-US-ORG1	Direct Resistivity Determination	US	10571592	2/25/2020	15/178,999	8/31/2015
PGS-15123-AU	Identification of Degrading Electrodes in a Marine Electromagnetic Survey System	AU			2016219714	8/31/2015
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PGS-15123-EP	Identification of Degrading Electrodes in a Marine Electromagnetic Survey System	EP			16186037.4	8/31/2015
PGS-15123-MY	Identification of Degrading Electrodes in a Marine Electromagnetic Survey System	MY			PI2016703150	8/31/2015
PGS-15123-US-ORG1	IDENTIFICATION OF DEGRADING ELECTRODES IN A MARINE ELECTROMAGNETIC SURVEY SYSTEM	US	10175277	1/8/2019	15/239,628	8/31/2015
PGS-15135-AU	Bipole Source Modeling	AU			2016247148	10/26/2015
PGS-15135-BR	Bipole Source Modeling	BR			BR102016024118-9	10/26/2015
PGS-15135-EP	Bipole Source Modeling	EP			EP16195161.1	10/26/2015
PGS-15135-MX	Bipole Source Modeling	MX			MX/A/2016/014025	10/26/2015
PGS-15135-MY	Bipole Source Modeling	MY			PI 2016703866	10/26/2015
PGS-15135-US-ORG1	Bipole Source Modeling	US			15/280,739	10/26/2015
PGS-15141-AU	Combined Seismic and Electromagnetic Survey Configurations	AU			2016369914	12/16/2015
PGS-15141-BR	Combined Seismic and Electromagnetic Survey Configurations	BR			BR112018012127-4	12/16/2015
PGS-15141-CA	Combined Seismic and Electromagnetic Survey Configurations	CA			3,008,380	12/16/2015
PGS-15141-CN	Combined Seismic and Electromagnetic Survey Configurations	CN			201680082041.7	12/16/2015
PGS-15141-EP	Combined Seismic and Electromagnetic Survey Configurations	EP			16801265.6	12/16/2015
PGS-15141-ID	Combined Seismic and Electromagnetic Survey Configurations	ID			PID201804998	12/16/2015

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PGS-15141-MX	Combined Seismic and Electromagnetic Survey Configurations	MX			MX/A/2018/007452	12/16/2015
PGS-15141-MY	Combined Seismic and Electromagnetic Survey Configurations	MY			PI 2018000915	12/16/2015
PGS-15141-US-ORG1	Combined Seismic and Electromagnetic Survey Configurations	US	10379256	8/13/2019	15/333,038	12/16/2015
PGS-16105-US-ORG1	ELECTROMAGNETIC STREAMER SAFETY	US	10461523	10/29/2019	15/464,494	4/19/2016
PGS-16149-US-ORG1	Electromagnetic inversion model reduction	US			15/902,061	2/23/2017
PGS-17104-EP	Towable Electromagnetic Source Equipment	EP			18158690.0	2/28/2017
PGS-17104-US-ORG1	Towable Electromagnetic Source Equipment	US			15/896,305	2/28/2017
PGS-17107-US-ORG1	Electromagnetic Data Inversion	US			16/009,305	6/16/2017
PGS-17117-US-ORG1	Determining Sea Water Resistivity	US			15/974,977	5/9/2017
PGS-17124-US-ORG1	Electromagnetic Response Data Inversion Using Singular Value Decomposition	US			16/164,881	10/20/2017
PGS-17130-US-ORG1	Inversion of Enhanced-Sensitivity Controlled Source Electromagnetic Data	US			16/002,086	6/14/2017