

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

EPAS ID: PAT7294677

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
CELSO CESAR MOREIRA BRANCO	02/22/2022
TATIANE SILVA VIEIRA	03/03/2022
JONATAS RIBEIRO	02/23/2022
MICHELE CRISTINA PEDROSO	03/03/2022
ROBERTO RODRIGUES	03/25/2022
RECEIVING PARTY DATA	
Name:	PETRÓLEO BRASILEIRO S.A. - PETROBRÁS
Street Address:	AVENIDA REPÚBLICA DO CHILE, 65, CENTRO
City:	RIO DE JANEIRO RJ
State/Country:	BRAZIL
Postal Code:	20031-912
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	17637696
CORRESPONDENCE DATA	
Fax Number:	(703)205-8050
<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:	(703) 205-8000
Email:	mailroom@bskb.com, anh-vu.dao@bskb.com
Correspondent Name:	BIRCH, STEWART, KOLASCH & BIRCH, LLP.
Address Line 1:	8110 GATEHOUSE ROAD, SUITE 100E
Address Line 4:	FALLS CHURCH, VIRGINIA 22042
ATTORNEY DOCKET NUMBER:	7217-0116PUS1
NAME OF SUBMITTER:	ANH-VU DAO
SIGNATURE:	/anh-vu dao/
DATE SIGNED:	04/22/2022
Total Attachments: 10	
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BIRCH, STEWART, KOLASCH & BIRCH, LLP

UNITED STATES PATENT RIGHTS, OR
UNITED STATES PLUS ALL FOREIGN PATENT RIGHTS

ASSIGNMENT

Application No. 17/637,696 Filed: February 23, 2022

WHEREAS, the below named inventor(s)
(hereinafter designated as the undersigned) has (have) invented certain new and useful improvements in:

Insert Title of Invention: INTEGRATED SYSTEM FOR SUBSEA HEATING AND PUMPING OF OIL AND INJECTION OF WATER FOR RESERVOIR PRESSURIZATION, AND METHOD FOR HYDRAULICALLY ACTUATED SUBSEA HEATING AND PUMPING AND INJECTION OF WATER

for which an application for Letters Patent of the United States of America has been executed by the undersigned (except in the case of a provisional application)

Insert Date of Signing of Appn. on August 14, 2020; and

Insert Name of Assignor: WHEREAS, PETRÓLEO BRASILEIRO S.A. - PETROBRÁS

Insert Address of Assignor: of Avenida República do Chile, 65, Centro, Rio de Janeiro RJ 20031-912, Brazil,

its heirs, successors, legal representatives and assigns (hereinafter designated as the Assignee) is desirous of acquiring the entire right, title and interest in and to said invention and in and to any Letters Patent(s) that may be granted therefor in the United States of America and

Check Box if Appropriate in any foreign countries.

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, the undersigned has (have) sold, assigned and transferred, and by these presents does (do) sell, assign and transfer unto said Assignee the full and exclusive right to the said invention in the United States of America, its territories, dependencies and possessions and the entire right, title and interest in and to any and all Letters Patent(s) which may be granted therefor in the United States of America, its territories, dependencies and possessions, and if the box above is designated, in any and all foreign countries; including all rights under the International Convention for the Protection of Industrial Property or similar agreements as well as the right to claim benefit from the priority of the above-mentioned application; and to any and all divisions, reissues, continuations, conversions and extensions thereof for the full term or terms for which the same may be granted.

The undersigned agree(s) to execute all papers necessary in connection with this application and any continuing, divisional, conversion or reissue applications thereof and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient.

The undersigned agree(s) to execute all papers necessary in connection with any interference which may be declared concerning this application or continuation, division, conversion or reissue thereof or Letters Patent(s) or reissue patent issued thereon and to cooperate with the Assignee in every way possible in obtaining and producing evidence and proceeding with such interference.

The undersigned agree(s) to execute all papers and documents and to perform any act which may be necessary in connection with claims or provisions of the International Convention for the Protection of Industrial Property or similar agreements.

The undersigned agree(s) to perform all affirmative acts which may be necessary to obtain a grant of (a) valid United States of America patent(s) or a grant of (a) valid United States of America and any foreign patent(s) to the Assignee and to vest all rights therein hereby conveyed to said Assignee as fully and entirely as the same would have been held by the undersigned if this Assignment and sale had not been made.

The undersigned hereby authorize(s) and request(s) the Patent and Trademark Office Officials in the United States of America and in any foreign countries to issue any and all Letters Patent(s) resulting from said application or any continuing, divisional conversion or reissue applications thereof to the said Assignee, as Assignee of the entire interest, and hereby covenants that he has (they have) the full right to convey the entire interest herein assigned, and that he has (they have) not executed, and will not execute, any agreement in conflict herewith.

The undersigned hereby grant(s) the law firm of Birch, Stewart, Kolasch & Birch, LLP 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.

The undersigned hereby covenant(s) that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this Assignment.

In witness whereof, executed by the undersigned on the date(s) opposite the undersigned name(s).

Date: February 22, 2022 Name of Inventor: Celso Cesar MOREIRA BRANCO
(Signature) Celso Cesar MOREIRA BRANCO

Date: _____ Name of Inventor: Tatiane SILVA VIEIRA
(Signature) Tatiane SILVA VIEIRA

Date: _____ Name of Inventor: Jonatas RIBEIRO
(Signature) Jonatas RIBEIRO

Date: _____ Name of Inventor: Michele Cristina PEDRUSO
(Signature) Michele Cristina PEDRUSO

Date: _____ Name of Inventor: Roberto RODRIGUES
(Signature) Roberto RODRIGUES

Date: _____ Name of Inventor: _____
(Signature) _____

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In witness whereof, executed by the undersigned on the date(s) opposite the undersigned name(s).

Date _____ Name of Inventor _____
(Signature) Celso Cesar MOREIRA BRANCO

Date March 05th, 2002 Name of Inventor Tafiane Silva Vieira
(Signature) Tafiane SILVA VIEIRA

Date _____ Name of Inventor _____
(Signature) Jonatas RIBEIRO

Date _____ Name of Inventor _____
(Signature) Michele Cristina PEDROSO

Date _____ Name of Inventor _____
(Signature) Roberto RODRIGUES

Date _____ Name of Inventor _____
(Signature):

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Date _____ Name of Inventor _____
(Signature) Celso Cesar MOREIRA BRANCO

Date _____ Name of Inventor _____
(Signature) Tatiane SILVA VIEIRA

Date _____ Name of Inventor _____
(Signature) Jonatas RIBEIRO

Date March 03/2022 Name of Inventor Michele C. Pedrosa
(Signature) Michele Cristina PEDROSO

Date _____ Name of Inventor _____
(Signature) Roberto RODRIGUES

Date _____ Name of Inventor _____
(Signature)

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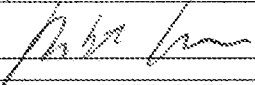
The undersigned agree(s) to perform all affirmative acts which may be necessary to obtain a grant of (a) valid United States of America patent(s) or a grant of (a) valid United States of America and any foreign patent(s) to the Assignee and to vest all rights therein hereby conveyed to said Assignee as fully and entirely as the same would have been held by the undersigned if this Assignment and sale had not been made.

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In witness whereof, executed by the undersigned on the date(s) opposite the undersigned name(s).

Date		Name of Inventor	
			(Signature) Celso Cesar MOREIRA BRANCO
Date		Name of Inventor	
			(Signature) Tatiane SILVA VIEIRA
Date		Name of Inventor	
			(Signature) Jonatas RIBEIRO
Date		Name of Inventor	
			(Signature) Michele Cristina PEDROSO
Date	March 25, 2022	Name of Inventor	
			(Signature) Roberto RODRIGUES
Date		Name of Inventor	
			(Signature)

Doc code: Oath

Document Description: Oath or declaration filed

PTO/AIA/02 (07-13)

Approved for use through 01/31/2014. OMB 0651-0032

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

**SUBSTITUTE STATEMENT IN LIEU OF AN OATH OR DECLARATION FOR UTILITY
OR DESIGN PATENT APPLICATION (35 U.S.C. 115(d) AND 37 CFR 1.64)**

Title of Invention	INTEGRATED SYSTEM FOR SUBSEA HEATING AND PUMPING OF OIL AND INJECTION OF WATER FOR RESERVOIR PRESSURIZATION, AND METHOD FOR HYDRAULICALLY ACTUATED SUBSEA HEATING AND PUMPING AND INJECTION OF WATER		
This statement is directed to:			
<input type="checkbox"/> The attached application,			
OR			
<input checked="" type="checkbox"/> United States application or PCT international application number <u>PCT/BR2020/050327</u> filed on <u>August 18, 2020</u> .			
LEGAL NAME of inventor to whom this substitute statement applies:			
(E.g., Given Name (first and middle (if any)) and Family Name or Surname)			
Jonatas Ribeiro			
Residence (except for a deceased or legally incapacitated inventor):			
City	State	Country	
Mailing Address (except for a deceased or legally incapacitated inventor):			
City	State	Zip	Country
I believe the above-named inventor or joint inventor to be the original inventor or an original joint inventor of a claimed invention in the application.			
The above-identified application was made or authorized to be made by me.			
I hereby acknowledge that any willful false statement made in this statement is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.			
Relationship to the inventor to whom this substitute statement applies:			
<input type="checkbox"/> Legal Representative (for deceased or legally incapacitated inventor only),			
<input checked="" type="checkbox"/> Assignee,			
<input type="checkbox"/> Person to whom the inventor is under an obligation to assign,			
<input type="checkbox"/> Person who otherwise shows a sufficient proprietary interest in the matter (petition under 37 CFR 1.46 is required), or			
<input type="checkbox"/> Joint Inventor.			

[Page 1 of 2]

This collection of information is required by 35 U.S.C. 115 and 37 CFR 1.63. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 1 minute to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

**PATENT
REEL: 059685 FRAME: 0849**

PTO/SB/AIA02 (07-13)

Approved for use through 01/31/2014. OMB 0651-0032

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Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

SUBSTITUTE STATEMENT

Circumstances permitting execution of this substitute statement:

- Inventor is deceased,
- Inventor is under legal incapacity,
- Inventor cannot be found or reached after diligent effort, or
- Inventor has refused to execute the oath or declaration under 37 CFR 1.63.

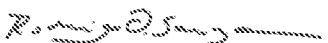
If there are joint inventors, please check the appropriate box below:

- An application data sheet under 37 CFR 1.76 (PTO/AIA/14 or equivalent) naming the entire inventive entity has been or is currently submitted.
- OR
- An application data sheet under 37 CFR 1.76 (PTO/AIA/14 or equivalent) has not been submitted. Thus, a Substitute Statement Supplemental Sheet (PTO/AIA/11 or equivalent) naming the entire inventive entity and providing inventor information is attached. See 37 CFR 1.64(b).

WARNING:

Petitioner/applicant is cautioned to avoid submitting personal information in documents filed in a patent application that may contribute to identity theft. Personal information such as social security numbers, bank account numbers, or credit card numbers (other than a check or credit card authorization form PTO-2038 submitted for payment purposes) is never required by the USPTO to support a petition or an application. If this type of personal information is included in documents submitted to the USPTO, petitioners/applicants should consider redacting such personal information from the documents before submitting them to the USPTO. Petitioner/applicant is advised that the record of a patent application is available to the public after publication of the application (unless a non-publication request in compliance with 37 CFR 1.213(a) is made in the application) or issuance of a patent. Furthermore, the record from an abandoned application may also be available to the public if the application is referenced in a published application or an issued patent (see 37 CFR 1.14). Checks and credit card authorization forms PTO-2038 submitted for payment purposes are not retained in the application file and therefore are not publicly available.

PERSON EXECUTING THIS SUBSTITUTE STATEMENT:

Name: Rodrigo de Oliveira e Souza	Date (Optional): 02/23/2022
Signature: 	

APPLICANT NAME AND TITLE OF PERSON EXECUTING THIS SUBSTITUTE STATEMENT:

If the applicant is a juristic entity, list the applicant name and the title of the signer:

Applicant Name: PETRÓLEO BRASILEIRO S.A. - PETROBRÁS

Title of Person Executing This Substitute Statement: **Petróleo Brasileiro S.A - Petrobras - Consultant - Business Models and Intellectual Property**

The signer, whose title is supplied above, is authorized to act on behalf of the applicant.

Residence of the signer (unless provided in an application data sheet, PTO/AIA/14 or equivalent):

City Rio de Janeiro	State RJ	Country Brazil
Mailing Address of the signer (unless provided in an application data sheet, PTO/AIA/14 or equivalent)		
intellectualproperty@petrobras.com.br		

City Rio de Janeiro	State RJ	Zip 21941-915	Country Brazil
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Note: Use an additional PTO/AIA/02 form for each inventor who is deceased, legally incapacitated, cannot be found or reached after diligent effort, or has refused to execute the oath or declaration under 37 CFR 1.63.