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| PATENT ASSIGNMENT COVER SHEET |
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 Stylesheet Version v1.2

EPAS ID: PAT7582091

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| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | ASSIGNMENT |
| CONVEYING PARTY DATA | |
| Name | Execution Date |
| JOHN RAVENSBERGEN | 09/11/2019 |
| LYLE LAUN | 09/11/2019 |
| MICHAEL WERRIES | 09/11/2019 |
| TIM JOHNSON | 11/29/2019 |
| JUAN MONTERO | 11/29/2019 |
| BROCK GILLIS | 09/11/2019 |
| RECEIVING PARTY DATA | |
| Name: | NCS MULTISTAGE INC. |
| Street Address: | 5380 - 72ND AVENUE SE |
| City: | CALGARY, ALBERTA |
| State/Country: | CANADA |
| Postal Code: | T2C 4X5 |
| PROPERTY NUMBERS Total: 1 | |
| Property Type | Number |
| Application Number: | 17873781 |
| CORRESPONDENCE DATA | |
| Fax Number: | (303)863-0223 |
| <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: | 3038639700 |
| Email: | epicard@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: | 10072NCS-6-CON |
| NAME OF SUBMITTER: | DAVID L. WALKER |
| SIGNATURE: | /David L. Walker/ |
| DATE SIGNED: | 10/10/2022 |

Total Attachments: 10

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ASSIGNMENT

WHEREAS, (1) RAVENSBERGEN, John, (2) LAUN, Lyle, (3) WERRIES, Michael, (4) JOHNSON, Tim, (5) MONTERO, Juan and, (6) GILLIS, Brock each referred to as (“ASSIGNOR”) have made certain new and useful inventions (the “Invention(s)”) being described and set forth in the following patent application(s), entitled

APPARATUSES, SYSTEMS AND METHODS FOR PRODUCING HYDROCARBON MATERIAL FROM A SUBTERRANEAN FORMATION

and which is a:

- (1) United States provisional application
 - (a) to be filed herewith; or
 - (b) bearing Application No. 62/467855, filed on March, 7, 2017;
- (2) United States patent application
 - (a) to be filed herewith; or
 - (b) bearing Application No. 16/491981 filed on March 6, 2018;
- (3) Canadian patent application
 - (a) to be filed herewith; or
 - (b) bearing Application No. 3055596 filed on March 6, 2018;
- (4) European patent application
 - (a) to be filed herewith; or
 - (b) bearing Application No. 20180764165.9 filed on March 6, 2018;
- (5) PCT patent application
 - (a) bearing Application No. PCT/CA2018/050261, filed on March 6, 2018;

AND WHEREAS

NCS MULTISTAGE INC., having a place of business at **5380 – 72nd Avenue SE, Calgary, AB T2C 4X5, Canada**

(hereinafter each referred to as the “ASSIGNEE”), is desirous of acquiring and confirming acquisition of the entire right, title and interest in and to: the Invention(s); the application(s) for patent identified in the paragraphs (1), (2), (3), (4) and/or (5); the right to file applications for patent of the United States, Canada, Europe or other countries on the Invention(s); any application(s) for patent of the United States, Canada, Europe or other countries claiming the Invention(s); any application(s) for patents of the United States, Canada, Europe or other countries claiming priority to, and/or the benefits of, these application(s); any provisional or other right to recover damages, including royalties, for prior infringements of these application(s); and any patent(s) of the United States, Canada, Europe or other countries that may be granted therefor or thereon.

NOW THEREFORE, for good and valuable consideration, the receipt of which from ASSIGNEE is hereby acknowledged by the ASSIGNOR, and to the extent that the ASSIGNOR has not already done so via a prior agreement with the ASSIGNEE, or if the ASSIGNOR has already done so via a prior agreement with the ASSIGNEE then in confirmation of any obligation to do so in said prior agreement, the ASSIGNOR has sold, assigned, transferred, conveyed and set over to the ASSIGNEE, and does hereby sell, assign, transfer, convey and set over unto the ASSIGNEE and to the ASSIGNEE'S successors, assigns, nominees, or other legal representatives, the ASSIGNOR's entire right, title and interest in and to:

- (a) the Invention(s);
- (b) the application(s) for patent identified in paragraph (1), (2), (3), (4) and/or (5);
- (c) the right to file applications for patent of the United States, Canada, Europe or other countries on the Invention(s), including all rights under the Hague Convention, the Paris Convention for the Protection of Industrial Property and under the Patent Cooperation Treaty, and all rights of claiming priority in any country of the world;
- (d) any application(s) for patent of the United States, Canada, Europe or other countries claiming the Invention(s);
- (e) any application(s) for patent of the United States, Canada, Europe or other countries claiming priority to, and/or the benefit of, at least one application(s) for patent identified in paragraph (1), (2), (3), (4) and/or (5) or any application(s) for patent claiming the Invention(s), including any substitute application(s), division(s), continuation(s), and continuation(s)-in-part;
- (f) any provisional or other right to recover damages, including royalties, for prior infringements of any application identified in the preceding paragraphs (b)-(e); and
- (g) any patent(s) of the United States, Canada, Europe or other countries that may be granted for or on any application for patent identified in the preceding paragraphs (b)-(e), including any reissue(s), re-examination(s), revival(s), renewal(s), and extension(s) of said patent(s).

The above-granted rights, titles and interests are to be held and enjoyed by the ASSIGNEE for its own use and behalf and the use and behalf of its successors, assigns, nominees, or other legal representatives, to the same extent as all such rights, titles and interests would have been held and enjoyed by the ASSIGNOR had this sale and assignment not been made.

The ASSIGNOR hereby represents to the ASSIGNEE, its successors, assigns, nominees or other legal representatives that, at the time of execution and delivery of these presents, or if applicable, at such time said prior agreement was executed, the ASSIGNOR is a lawful owner of an undivided interest in the entire right, title and interest in and to the Invention(s), that the Invention(s) are unencumbered, except, if applicable, by obligation to assign in accordance with said prior agreement, and that the ASSIGNOR has good and full right and lawful authority to sell and convey the same, in the manner set forth herein, and that ASSIGNOR will not make or enter into any assignment, sale, agreement or encumbrance which would conflict with these presents.

The ASSIGNOR hereby covenants and agrees to and with ASSIGNEE, its successors, assigns, nominees or other legal representatives, that the ASSIGNOR will communicate with ASSIGNEE, its successors, assigns, nominees or other legal representatives any facts known to the ASSIGNOR respecting the Invention(s), and will sign all lawful papers when called upon to do so, and will execute and deliver any and all papers that may be necessary or desirable to perfect the title to the Invention(s) in said ASSIGNEE, its successors, assigns, nominees or other legal representatives, and will do all acts necessary or required to be done, including testifying as to such facts, in connection with any and all proceedings for the procurement, maintenance, enforcement and defense of the Invention(s), said application(s), and said patent(s), all without charge to the ASSIGNEE, its successors, assigns, nominees or other legal representatives, it being understood that any expense incident to the execution of such papers shall be borne by the ASSIGNEE, its successors, assigns, nominees or other legal representatives.

The ASSIGNOR hereby authorizes and requests The Commissioner of Patents or any equivalent position thereto to issue each and every one of said patent(s) to the ASSIGNEE for the sole use and behalf of the ASSIGNEE, its successors, assigns, nominees, or other legal representatives.

The ASSIGNOR hereby appoints ASSIGNEE, through its designee, the ASSIGNOR'S attorney-in-fact to execute, in the ASSIGNOR'S name and on the ASSIGNOR'S behalf, any and all documents required to effectuate this Assignment, specifically including, but not limited to, those papers specified above and any necessary corrective assignments.

If any covenant or provision, or portion thereof, of this Assignment is determined to be void or unenforceable, such void or unenforceable covenant or provision, or portion thereof, is hereby conceded to be severable from the balance of this Assignment; and such a determination shall not, in any event, affect or impair the validity of the balance of the covenant or provision, nor shall it affect or impair the validity of any other covenant or provision herein contained.

The ASSIGNOR hereby grants to the ASSIGNEE, its successors, assigns, nominees or other legal representatives the power to correct clerical errors in this Assignment or to insert on this Assignment any further information which may be necessary or desirable in order to comply with statutory requirements for recordation of this document.

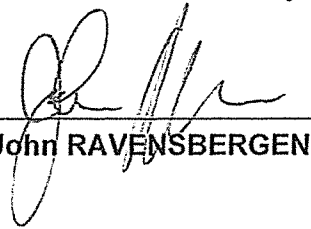
This Assignment shall be governed by and construed in accordance with the applicable laws of Canada, without regard to conflicts of law principles.

This Assignment shall be governed by and construed in accordance with the applicable laws of the United States, without regard to conflicts of law principles.

This Assignment may be executed in counterparts, all of which shall be considered one and the same Assignment.

IN WITNESS WHEREOF, this Assignment has been executed below by the undersigned Assignor:

Date: September 11, 2019



John RAVENSBERGEN

STATEMENT BY WITNESS

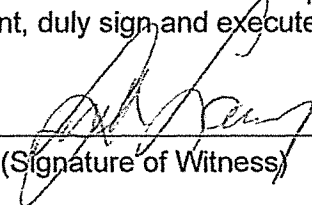
I, Lyle Laun whose full Post Office Address is

5380 - 72 Avenue SE, Calgary AB T2C 4X5

(Address of Witness)

hereby declare that I was personally present and did see the above-named person, personally known to me to be the person named in the Assignment, duly sign and execute the same.

Date: September 11, 2019



(Signature of Witness)

STATEMENT BY WITNESS


I, Angelica Meza whose full Post Office Address is

5380 - 72 Avenue SE, Calgary AB T2C 4X5

(Address of Witness)

hereby declare that I was personally present and did see the above-named person, personally known to me to be the person named in the Assignment, duly sign and execute the same.

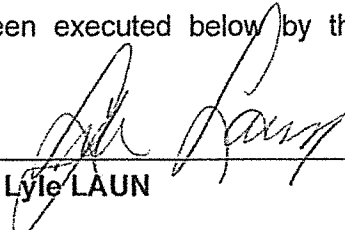
Date: September 11, 2019



(Signature of Witness)

IN WITNESS WHEREOF, this Assignment has been executed below by the undersigned Assignor:

Date: September 11, 2019



Lyle LAUN

STATEMENT BY WITNESS

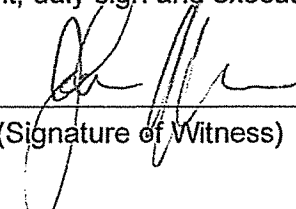
I, John Ravensbergen whose full Post Office Address is

5380 - 72 Avenue SE, Calgary AB T2C 4X5

(Address of Witness)

hereby declare that I was personally present and did see the above-named person, personally known to me to be the person named in the Assignment, duly sign and execute the same.

Date: September 11, 2019



(Signature of Witness)

STATEMENT BY WITNESS


I, Angelica Meza whose full Post Office Address is

5380 - 72 Avenue SE, Calgary AB T2C 4X5

(Address of Witness)

hereby declare that I was personally present and did see the above-named person, personally known to me to be the person named in the Assignment, duly sign and execute the same.

Date: September 11, 2019



(Signature of Witness)

IN WITNESS WHEREOF, this Assignment has been executed below by the undersigned Assignor:

Date: September 11, 2019


Michael WERRIES

STATEMENT BY WITNESS


I, Brock Gillis whose full Post Office Address is

5380 - 72 Avenue SE, Calgary AB T2C 4X5

(Address of Witness)

hereby declare that I was personally present and did see the above-named person, personally known to me to be the person named in the Assignment, duly sign and execute the same.

Date: September 11, 2019


(Signature of Witness)

STATEMENT BY WITNESS

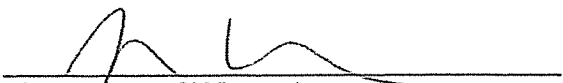
I, Angelica Meza whose full Post Office Address is

5380 - 72 Avenue SE, Calgary AB T2C 4X5

(Address of Witness)

hereby declare that I was personally present and did see the above-named person, personally known to me to be the person named in the Assignment, duly sign and execute the same.

Date: September 11, 2019


(Signature of Witness)

IN WITNESS WHEREOF, this Assignment has been executed below by the undersigned Assignor:

Date: 11/29/2019



Tim JOHNSON

STATEMENT BY WITNESS

I, Cathy Pilkington whose full Post Office Address is

5380 72nd Ave SE, Calgary, AB T2C 4X5 Canada
(Address of Witness)

hereby declare that I was personally present and did see the above-named person, personally known to me to be the person named in the Assignment, duly sign and execute the same.

Date: Nov. 29, 2019

C. Pilkington
(Signature of Witness)

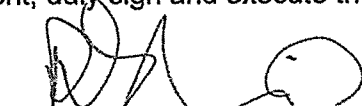
STATEMENT BY WITNESS

I, Roxane Stenerson whose full Post Office Address is

5380 72nd Ave SE, Calgary, AB T2C 4X5 Canada
(Address of Witness)

hereby declare that I was personally present and did see the above-named person, personally known to me to be the person named in the Assignment, duly sign and execute the same.

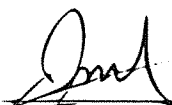
Date: Nov. 29, 2019



(Signature of Witness)

IN WITNESS WHEREOF, this Assignment has been executed below by the undersigned Assignor:

Date: Nov 29th, 2019

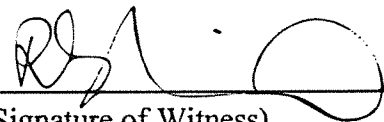

MONTERO, Juan

STATEMENT BY WITNESS

I, Roxane Slavus whose full Post Office Address is

5380 72nd Ave. SE., Calgary, AB T2C4X5
(Address of Witness)

hereby declare that I was personally present and did see the above-named person, personally known to me to be the person named in the Assignment, duly sign and execute the same.


Date: Nov. 29, 2019 
(Signature of Witness)

STATEMENT BY WITNESS

I, Cathy Pilkington whose full Post Office Address is


5380 72 Ave SE Calgary AB T2C 4X5
(Address of Witness)

hereby declare that I was personally present and did see the above-named person, personally known to me to be the person named in the Assignment, duly sign and execute the same.

Date: Nov. 29, 2019 
(Signature of Witness)

IN WITNESS WHEREOF, this Assignment has been executed below by the undersigned Assignor:

Date: September 11, 2019


Brock GILLIS

STATEMENT BY WITNESS


I, Michael Werries whose full Post Office Address is

5380 - 72 Avenue SE, Calgary AB T2C 4X5

(Address of Witness)

hereby declare that I was personally present and did see the above-named person, personally known to me to be the person named in the Assignment, duly sign and execute the same.

Date: September 11, 2019


(Signature of Witness)

STATEMENT BY WITNESS

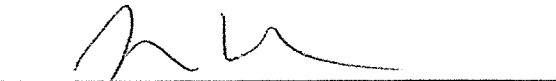
I, Angelica Meza whose full Post Office Address is

5380 - 72 Avenue SE, Calgary AB T2C 4X5

(Address of Witness)

hereby declare that I was personally present and did see the above-named person, personally known to me to be the person named in the Assignment, duly sign and execute the same.

Date: September 11, 2019


(Signature of Witness)

IN WITNESS WHEREOF, this Assignment has been executed below by the undersigned Assignee:

NCS Multistage Inc.

Date: Nov. 29, 2019
Corporate Title: C.T.O.

[Signature]
JOHN RAVENSBERGEN

STATEMENT BY WITNESS

I, Cathy Pilkington whose full Post Office Address is

5380 72nd Ave. SE, Calgary, AB T2C4X5 Canada
(Address of Witness)

hereby declare that I was personally present and did see the above-named person authorized to sign on behalf of NCS Multistage Inc., duly sign and execute the same.

Date: Nov. 29, 2019

[Signature]
(Signature of Witness)

STATEMENT BY WITNESS

I, Roxana Slavova whose full Post Office Address is

5380 72nd Ave. SE, Calgary, AB T2C4X5 Canada
(Address of Witness)

hereby declare that I was personally present and did see the above-named person authorized to sign on behalf of NCS Multistage Inc., duly sign and execute the same.

Date: Nov. 29, 2019

[Signature]
(Signature of Witness)