

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

EPAS ID: PAT5746836

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|---|-------------------------------------|
| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | ASSIGNMENT |
| CONVEYING PARTY DATA | |
| Name | Execution Date |
| ROBERT BENJAMIN DONNALLY | 08/09/2019 |
| XI LIN LIU | 07/15/2019 |
| JAY JOHN THIESSEN | 07/31/2019 |
| RECEIVING PARTY DATA | |
| Name: | NATIONAL OILWELL VARCO, L.P. |
| Street Address: | 7909 PARKWOOD CIRCLE DRIVE |
| City: | HOUSTON |
| State/Country: | TEXAS |
| Postal Code: | 77036 |
| PROPERTY NUMBERS Total: 1 | |
| Property Type | Number |
| Application Number: | 16431540 |
| CORRESPONDENCE DATA | |
| Fax Number: | |
| <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> | |
| Email: | Request@slwip.com |
| Correspondent Name: | SCHWEGMAN LUNDBERG & WOESSNER, P.A. |
| Address Line 1: | P.O. BOX 2938 |
| Address Line 4: | MINNEAPOLIS, MINNESOTA 55402 |
| ATTORNEY DOCKET NUMBER: | 5233.134US1 |
| NAME OF SUBMITTER: | KASIE A. BOSMA |
| SIGNATURE: | /Kasie A. Bosma/ |
| DATE SIGNED: | 10/01/2019 |
| Total Attachments: 10 | |
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RECORDATION FORM COVER SHEET
PATENTS ONLY

Atty Ref/Docket No.: 5233.134US1

Patent and Trademark Office

To the Director of the U.S. Patent and Trademark Office: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

Robert Benjamin Donnally, Xi Lin Liu, Jay John Thiessen

Additional name(s) of conveying party(ies) attached?

Yes No

2. Name and address of receiving party(ies):

Name: NATIONAL OILWELL VARCO, L.P.

Street Address: 7909 Parkwood Circle Drive

City: Houston State: Texas Zip: 77036

Country: United States of America

Additional name(s) & address(es) attached? Yes No

3. Nature of conveyance:

Assignment

Merger

Security Agreement Change of Name

Other

Execution Date: August 9, 2019, July 15, 2019, July 31, 2019

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is:

A. Patent Application No.(s)

Serial No. 16/431,540

B. Patent No.(s)

Additional numbers attached? Yes No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Brett A. Klein

Address:

Schwegman Lundberg & Woessner, P.A.

P.O. Box 2938

Minneapolis, Minnesota 55402

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.41): \$ 0.00

Enclosed

Authorized to be charged to deposit account 19-0743

8. Please charge any additional fees or credit any over payments to our Deposit Account No.: 19-0743

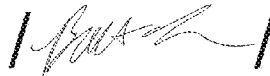
DO NOT USE THIS SPACE

9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Brett A. Klein/Reg. No. 64,448

Name of Person Signing



Signature

9/26/2019

Date

Total number of pages including cover sheet: 10

Mail documents to be recorded with required cover sheet information to:

Commissioner of Patents and Trademarks

Mail Stop Assignment Recordation Services

P.O. Box 1450

Alexandria, VA 22313-1450

PATENT
REEL: 050572 FRAME: 0243

ASSIGNMENT

WHEREAS, Robert Benjamin Donnally, Xi Lin Liu and Jay John Thiessen (hereinafter the "Undersigned") have made one or more inventions and other subject matter (hereinafter collectively referred to as the "Invention"); as described in the patent application filed on June 4, 2019, assigned US application serial number 16/431,540, and titled DEVICES, SYSTEMS, AND METHODS FOR TOP DRIVE CLEARING as described in a provisional patent application filed on January 25, 2019 assigned United States application serial number 62/797,042, and titled Hoist System Capable of Parking a Top Drive and Including an Elevator and a Claw Independently Operated and Automated Robotic Arms for Handling Tubulars on a Drilling Rig; as described in a patent application filed on November 28, 2018 assigned Chinese application serial number 201811449262.0, and titled Hoist System Capable of Parking a Top Drive and Including an Elevator and a Claw Independently Operated for Handling Tubulars on a Drilling Rig; and as described in a patent application filed on August 3, 2018 assigned Chinese application serial number 201810850362.2, and titled Hoist System Capable of Parking a Top Drive and Including an Elevator and a Claw Independently Operated for Handling Tubulars on a Drilling Rig.

FOR GOOD AND VALUABLE CONSIDERATION, the receipt, sufficiency, and adequacy of which are hereby acknowledged by the Undersigned, the Undersigned do hereby irrevocably and unconditionally:

CONVEY, ASSIGN, AND TRANSFER to NATIONAL OILWELL VARCO, L.P. (the "Assignee"), having a place of business at 7909 Parkwood Circle Drive, Houston, Texas 77036, the Undersigned's entire right, title, and interest for the United States and all foreign countries and jurisdictions in and to:

the Invention which is disclosed in the above-identified application or applications;

such application or applications, and all divisional, continuing (including continuation-in-part), substitute, renewal, reissue, and all other applications for a patent or patents which have been or shall be filed in the United States (including all provisional and non-provisional applications), and in all foreign countries and jurisdictions based in whole or in part on any of such Invention (including any application for a utility model or an innovation patent application);

all original and reissued patents which have been or shall be issued in the United States and all foreign countries and jurisdictions based in whole or in part on any of such Invention;

including the right to claim priority to the above-identified patent application or applications in relation to subject matter based in whole or in part on the above-identified patent application or applications and any of the foregoing including the right to file foreign applications under the provisions of any convention or treaty;

and including the right to all causes of action, remedies, and other enforcement rights related to the above-identified application or applications, including without limitation the right to sue for past, present, or future infringement, misappropriation, or violation of any and all rights related to the above-identified patent application or applications and any of the foregoing, including the right to obtain and collect damages for past, present, or future infringement;

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

AUTHORIZE AND REQUEST that any attorney associated with U.S. Patent and Trademark Office (USPTO) Customer No. 21186 may (directly or through his/her designee) delete, insert, or alter any information related to the above-identified patent application or applications or any of the foregoing, after execution of this Assignment;

WARRANT AND COVENANT that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been or shall 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, that when requested and without compensation, but at the expense of the Assignee, in order to carry out in good faith the intent and purpose of this Assignment, the Undersigned shall (1) execute all provisional, non-provisional, divisional, continuing (including continuation-in-part), substitute, renewal, reissue, and all other patent applications for the invention; (2) execute all rightful oaths, declarations, assignments, powers of attorney and other papers for the invention; (3) communicate to the Assignee all facts known to the Undersigned relating to the invention and the history thereof; (4) cooperate with the Assignee in any interference, reexamination, reissue, opposition, dispute, or litigation involving any of the applications or patents for the invention; and (5) take such further actions as the Assignee shall reasonably consider necessary or desirable for vesting title to such invention in the Assignee, or for securing, maintaining and enforcing proper patent protection for the invention;

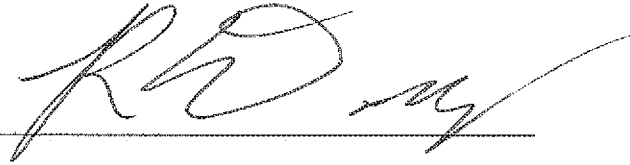
COVENANT, that should any provision of this agreement be held unenforceable by an authority of competent jurisdiction, such a ruling shall not affect the validity and enforceability of the remaining provisions.

THIS AGREEMENT IS TO BE BINDING on the heirs, assigns, representatives, and successors of the Undersigned, and is to extend to the benefit of the successors, assigns, and nominees of the Assignee.

AGREED as of the date of my signature below:

Assignor:

(Signature):

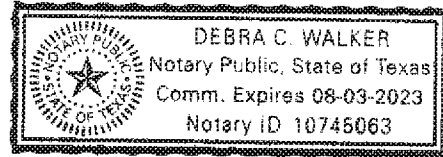


Name: Robert Benjamin Donnally

City/State or Country: Plano, TX

Date:

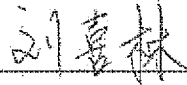
08/05/2019



Debra C. Walker

Assignor:

(Signature):



Name: Xi Lin Liu

City/State or Country: Shanghai, China

Assignor:

(Signature):

Name: Jay John Thiessen

City/State or Country: Edmonton, AB

Date:

ASSIGNMENT

WHEREAS, Robert Benjamin Donnally, Xi Lin Liu and Jay John Thiessen (hereinafter the "Undersigned") have made one or more inventions and other subject matter (hereinafter collectively referred to as the "Invention"); as described in the patent application filed on June 4, 2019, assigned US application serial number 16/431,540, and titled DEVICES, SYSTEMS, AND METHODS FOR TOP DRIVE CLEARING as described in a provisional patent application filed on January 25, 2019 assigned United States application serial number 62/797,042, and titled Hoist System Capable of Parking a Top Drive and Including an Elevator and a Claw Independently Operated and Automated Robotic Arms for Handling Tubulars on a Drilling Rig; as described in a patent application filed on November 28, 2018 assigned Chinese application serial number 201811449262.0, and titled Hoist System Capable of Parking a Top Drive and Including an Elevator and a Claw Independently Operated for Handling Tubulars on a Drilling Rig; and as described in a patent application filed on August 3, 2018 assigned Chinese application serial number 201810850362.2, and titled Hoist System Capable of Parking a Top Drive and Including an Elevator and a Claw Independently Operated for Handling Tubulars on a Drilling Rig.

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the Invention which is disclosed in the above-identified application or applications;

such application or applications, and all divisional, continuing (including continuation-in-part), substitute, renewal, reissue, and all other applications for a patent or patents which have been or shall be filed in the United States (including all provisional and non-provisional applications), and in all foreign countries and jurisdictions based in whole or in part on any of such Invention (including any application for a utility model or an innovation patent application);

all original and reissued patents which have been or shall be issued in the United States and all foreign countries and jurisdictions based in whole or in part on any of such Invention;

including the right to claim priority to the above-identified patent application or applications in relation to subject matter based in whole or in part on the above-identified patent application or applications and any of the foregoing including the right to file foreign applications under the provisions of any convention or treaty;

and including the right to all causes of action, remedies, and other enforcement rights related to the above-identified application or applications, including without limitation the right to sue for past, present, or future infringement, misappropriation, or violation of any and all rights related to the above-identified patent application or applications and any of the foregoing, including the right to obtain and collect damages for past, present, or future infringement;

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AGREED as of the date of my signature below:

Assignment
Assignors: Robert Benjamin Donnelly et al.
Title: DEVICES, SYSTEMS, AND METHODS FOR TOP DRIVE CLEARING
Page 3 of 3

Docket No: 5235.134US1
Client Ref. No. RS-LD-0037-3

Assignor:

(Signature):

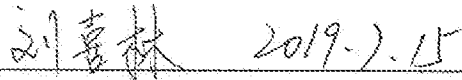
Name: Robert Benjamin Donnelly

City/State or Country: Plano, TX

Date: _____

Assignor:

(Signature):

 2019-7-15

Name: Xi Lin Liu

City/State or Country: Shanghai, China

Assignor:

(Signature):

Name: Jay John Thiessen

City/State or Country: Edmonton, AB

Date: _____

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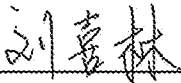
Name: Robert Benjamin Donnally

City/State or Country: Plano, TX

Date:

Assignor:

(Signature):



Name: Xi Lin Liu

City/State or Country: Shanghai, China

Assignor:

(Signature):



Name: Jay John Thiessen

City/State or Country: Edmonton, AB

Date:

JULY 31, 2012.