

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
BIJU PILLAI KUMAR	01/27/2017
BRADLEY S. IVIE	02/06/2017
WEI LIU	01/28/2017
ANIL KUMAR	01/30/2017
RUSSELL C. GILLEYLEN	10/17/2018
MICHAEL D. HUGHES	01/27/2017
RECEIVING PARTY DATA	
Name:	NATIONAL OILWELL DHT, L.P.
Street Address:	500 CONROE PARK WEST DRIVE
City:	CONROE
State/Country:	TEXAS
Postal Code:	77303
PROPERTY NUMBERS Total: 2	
Property Type	Number
Application Number:	62288049
Application Number:	16064450
CORRESPONDENCE DATA	
Fax Number:	(713)238-8008
<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:	713-238-8000
Email:	eskaggs@conleyrose.com
Correspondent Name:	THADDEUS J. FALESKI/CONLEY ROSE, P.C.
Address Line 1:	575 N. DAIRY ASHFORD RD., SUITE 1102
Address Line 4:	HOUSTON, TEXAS 77079
ATTORNEY DOCKET NUMBER:	1814-96705
NAME OF SUBMITTER:	THADDEUS J. FALESKI
SIGNATURE:	/Thaddeus J. Faleski/
DATE SIGNED:	10/17/2018

Total Attachments: 7

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ASSIGNMENT

FOR GOOD AND VALUABLE CONSIDERATION given to us by **NATIONAL OILWELL DHT, L.P.**, the receipt and sufficiency of which are hereby acknowledged, we, **Biju Pillai KUMAR, Bradley S. IVIE, Wei LIU, Anil KUMAR, Russell C. GILLEYLEN, and Michael D. HUGHES** ("ASSIGNORS"), having made an invention in "**SYSTEMS AND METHODS OF FABRICATION AND USE OF WEAR-RESISTANT MATERIALS**" ("INVENTION"), while in the employ either as an employee or consultant of **NATIONAL OILWELL DHT, L.P.**, a Delaware limited partnership doing business at 500 Conroe Park West Drive, Conroe, Texas 77303 (sometimes hereinafter called "ASSIGNEE"), do hereby ASSIGN, SELL and CONVEY to said **NATIONAL OILWELL DHT, L.P.**, its successors and assigns, the entire right, title and interest throughout the world in and to:

1. Said invention in "**SYSTEMS AND METHODS OF FABRICATION AND USE OF WEAR-RESISTANT MATERIALS;**"
2. United States of America provisional patent application on said invention, filed as U.S. Patent Application No. 62/288,049 on January 28, 2016 (Attorney Docket No. 1814-96700), and entitled "**WEAR-RESISTANT MATERIALS FOR DOWNHOLE TOOLS;**"
3. Patent Cooperation Treaty international application on said invention, filed as PCT Application No. PCT/US2017/015274 on January 27, 2017 (Attorney's File No. 1814-96701), and entitled "**SYSTEMS AND METHODS OF FABRICATION AND USE OF WEAR-RESISTANT MATERIALS;**"
4. All applications for patent or like protection on the INVENTION that have now been or may in the future be made by us or our legal representatives, including any continuation, continuation-in-part and any other utility applications that may be based on the INVENTION, whether in the United States of America or any other place anywhere in the world;
5. All patents and like protection that have now been or may in the future be granted on the INVENTION to us or our legal representatives, whether in the United States of America or in any other country or place anywhere in the world;
6. All substitutions for and divisions, continuations, continuations-in-part, renewals, reissues, extensions, and the like of the applications and patents and like grants, including without limitation, those obtained or permissible under past, present, and future laws and statutes;
7. All rights of action on account of past, present, and future unauthorized use of the INVENTION and for infringement of the patents and like protection;


8. The right in ASSIGNEE to file in its name applications for patents and like protection for the INVENTION in any country or countries foreign to the United States; and

9. All international rights of priority associated with the INVENTION, applications, patents, and like protection; and

we covenant that we, and our heirs, legal representatives, assigns, administrators, and executors, will, at the expense of ASSIGNEE, its successors, and assigns, execute all papers and perform such other acts as may be reasonably necessary to give ASSIGNEE, its successors, and assigns, the full benefit of this Assignment. Further, ASSIGNOR warrants that the INVENTION is not encumbered by another assignment or obligation of assignment to a third-party and that ASSIGNOR has the full ability and authority to assign and encumber the INVENTION.

EXECUTED on the date indicated below, opposite my signature.


Signature:


Biju Pillai Kumar

Date:

1/27/17

Witnessed by:

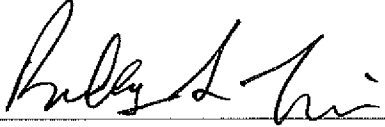

Signature


Date:

1/27/17


Printed Name of Witness

EXECUTED on the date indicated below, opposite my signature.

Signature:  Date: 6 FEB 2017
Bradley S. Ivie

Witnessed by:  Date: 6 FEB 2017
Signature
Roger Silva
Printed Name of Witness

EXECUTED on the date indicated below, opposite my signature.

Signature: Wei Liu Date: 1/28/2017
Wei Liu

Witnessed by: Xu Yan Date: 1/28/2017
Signature

Xu Yan
Printed Name of Witness

EXECUTED on the date indicated below, opposite my signature.

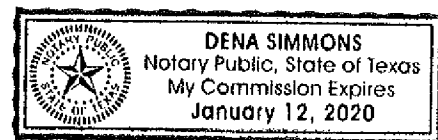
Signature: Anil Kumar
Anil Kumar

Date: 1-30-17

Witnessed by: Dena Simmons
Signature

Date: 1/30/17

Dena Simmons
Printed Name of Witness



EXECUTED on the date indicated below, opposite my signature.

Signature: Russell C. Gilleylen Date: 10-17-2018
Russell C. Gilleylen

Witnessed by: Rajagopala Pillai Date: 10-17-2018
Signature

RAJAGOPALA PILLAI
Printed Name of Witness

EXECUTED on the date indicated below, opposite my signature.

Signature: Michael D. Hughes Date: 1/27/2017
Michael D. Hughes

Witnessed by: Biju Kumar Date: 1/27/17
Signature

BIJU KUMAR
Printed Name of Witness