

<b>PATENT ASSIGNMENT COVER SHEET</b>
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 Stylesheet Version v1.2

EPAS ID: PAT5435282

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
ENRIQUE ZARATE LOSOYA	03/07/2019
SAMUEL F. NOYNAERT	03/22/2019
IBRAHIM S. EL-SAYED	03/07/2019
TYRELL A. CUNNINGHAM	03/11/2019
EDUARDO GILDIN	03/11/2019
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	THE TEXAS A&M UNIVERSITY SYSTEM
<b>Street Address:</b>	3369 TAMU
<b>City:</b>	COLLEGE STATION
<b>State/Country:</b>	TEXAS
<b>Postal Code:</b>	77843-3369
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	16294807
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(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>	
<b>Phone:</b>	713-238-8000
<b>Email:</b>	eskaggs@conleyrose.com
<b>Correspondent Name:</b>	THADDEUS J. FALESKI/CONLEY ROSE, P.C.
<b>Address Line 1:</b>	575 N. DAIRY ASHFORD RD., SUITE 1102
<b>Address Line 4:</b>	HOUSTON, TEXAS 77079
<b>ATTORNEY DOCKET NUMBER:</b>	2238-10601
<b>NAME OF SUBMITTER:</b>	THADDEUS J. FALESKI
<b>SIGNATURE:</b>	/Thaddeus J. Faleski/
<b>DATE SIGNED:</b>	03/22/2019
<b>Total Attachments: 6</b>	
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## ASSIGNMENT

FOR GOOD AND VALUABLE CONSIDERATION given to us by **THE TEXAS A&M UNIVERSITY SYSTEM**, and other valuable consideration, the receipt and sufficiency of which are hereby acknowledged, we, **Enrique ZARATE LOSOYA, Samuel F. NOYNAERT, Ibrahim S. EL-SAYED, Tyrell A. CUNNINGHAM, and Eduardo GILDIN** ("ASSIGNORS"), having made an invention in "**METHODS FOR REAL-TIME OPTIMIZATION OF DRILLING OPERATIONS,**" while in the employ either as an employee or consultant of **THE TEXAS A&M UNIVERSITY SYSTEM**, a university doing business at 3369 TAMU, College Station, Texas, 77843-3369 (sometimes hereinafter called "ASSIGNEE"), do hereby ASSIGN, SELL and CONVEY to said **THE TEXAS A&M UNIVERSITY SYSTEM**, its successors and assigns, the entire right, title and interest throughout the world in and to:

1. Said invention in "**METHODS FOR REAL-TIME OPTIMIZATION OF DRILLING OPERATIONS;**" (INVENTION)
2. United States of America utility patent application on said invention, filed as U.S. Patent Application No. 16/294,807 on March 6, 2019 (Attorney's File No. 2238-10601) and entitled "**METHODS FOR REAL-TIME OPTIMIZATION OF DRILLING OPERATIONS;**"
3. 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;
4. 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;
5. 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;
6. 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;
7. 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
8. 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.

ASSIGNOR

Date: 03/07/19

[Signature]  
Enrique Zarate Losoya

THE STATE OF Texas §  
COUNTY OF Brazos §

BEFORE ME, the undersigned authority, on this day personally appeared Enrique Zarate Losoya, known to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that he executed the same for the purposes and consideration therein expressed.

GIVEN UNDER MY HAND AND SEAL OF OFFICE, this the 7 day of March, 2019



[Signature]  
Notary Public in and for  
the State of Texas

Commission Expires:  
October 9, 2020

\*\*\*\*\*

EXECUTED on the date indicated below, opposite my signature.

ASSIGNOR

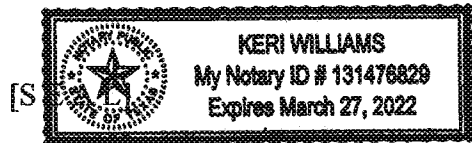
Date: March 22, 2019

*Samuel F. Noynaert*  
Samuel F. Noynaert

THE STATE OF Texas §  
COUNTY OF Brewster §

BEFORE ME, the undersigned authority, on this day personally appeared Samuel F. Noynaert, known to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that he executed the same for the purposes and consideration therein expressed.

GIVEN UNDER MY HAND AND SEAL OF OFFICE, this the 22<sup>nd</sup> day of March, 2019.



*Keri Williams*  
Notary Public in and for  
the State of Texas

My Commission Expires:

March 27 2022

\*\*\*\*\*

EXECUTED on the date indicated below, opposite my signature.

ASSIGNOR

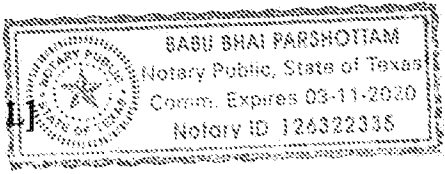
Date: 3/7/19

Ibrahim S. El-sayed  
Ibrahim S. El-sayed

THE STATE OF TEXAS §  
  §  
COUNTY OF HARRIS §

BEFORE ME, the undersigned authority, on this day personally appeared **Ibrahim S. El-sayed**, known to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that he executed the same for the purposes and consideration therein expressed.

GIVEN UNDER MY HAND AND SEAL OF OFFICE, this the 7th day of MARCH, 2019.

[SEAL] 

Basu Shai Parshottam  
Notary Public in and for  
the State of TEXAS

My Commission Expires:  
03-11-2020

\*\*\*\*\*

EXECUTED on the date indicated below, opposite my signature.

ASSIGNOR

Date: 3/11/2019

  
Tyrell A. Cunningham

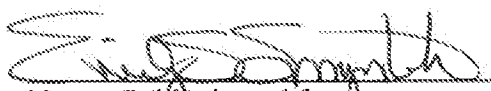
THE STATE OF Pennsylvania §  
  §  
COUNTY OF McKean §

BEFORE ME, the undersigned authority, on this day personally appeared Tyrell A. Cunningham, known to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that he executed the same for the purposes and consideration therein expressed.

GIVEN UNDER MY HAND AND SEAL OF OFFICE, this the 11<sup>th</sup> day of March, 2019.

Commonwealth of Pennsylvania - Notary Seal  
Emily S. Smyntek, Notary Public  
McKean County  
My commission expires September 27, 2022  
Commission number 1258154  
Member, Pennsylvania Association of Notaries

[SEAL]

  
Notary Public in and for  
the State of Pennsylvania

My Commission Expires:  
09/27/2022

