504309327 04/06/2017

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
YUZHEN XUE	11/07/2014
JASON D. DYKSTRA	11/07/2014
XIAOQING GE	11/07/2014
XINGYONG SONG	11/07/2014
VENKATA MADHUKANTH VADALI	11/07/2014

RECEIVING PARTY DATA

Name:	HALLIBURTON ENERGY SERVICES, INC.
Street Address:	3000 N. SAM HOUSTON PARKWAY E.
City:	HOUSTON
State/Country:	TEXAS
Postal Code:	77032-3219

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15517245

CORRESPONDENCE DATA

Fax Number: (513)223-8388

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.

Phone: 512-322-2500

Email: crystle.garbade@bakerbotts.com

Correspondent Name: BAKER BOTTS L.L.P.

Address Line 1: 1500 SAN JACINTO CENTER

Address Line 2: 98 SAN JACINTO BLVD

Address Line 4: AUSTIN, TEXAS 78701-4039

Total Attachments: C	
DATE SIGNED:	04/06/2017
SIGNATURE:	/Crystle Garbade/
NAME OF SUBMITTER:	CRYSTLE GARBADE
ATTORNEY DOCKET NUMBER:	063718.7131

Total Attachments: 6

PATENT REEL: 041883 FRAME: 0618

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PATENT REEL: 041883 FRAME: 0619

ASSIGNMENT

Whereas, We Yuzhen Xue of Humble, Texas; Jason D. Dykstra of Spring, Texas; Xiaoqing Ge of The Woodlands, Texas; Xingyong Song of Houston, Texas; and Venkata Madhukanth Vadali of Houston, Texas, have invented "NONLINEAR TOOLFACE CONTROL SYSTEM FOR A ROTARY STEERABLE DRILLING TOOL" for which we have made application for Letters Patent of the International Bureau; and

Whereas, HALLIBURTON ENERGY SERVICES, INC., a Delaware Corporation, having a place of business at 3000 N. Sam Houston Parkway E., Houston, Texas 77032-3219 is desirous of acquiring an interest therein;

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, We, by these presents do sell, assign and transfer and convey unto HALLIBURTON ENERGY SERVICES, INC., its successors and assigns, the full and exclusive right, for the United States of America and its territorial possessions and for any and all foreign countries, in and to the said invention, described in the Patent Application, and any divisional, continuing or reissue application based on the present application preparatory to obtaining Letters Patent of the United States therefor; said invention, application and any and all Letters Patent issuing therefor to be held and enjoyed by HALLIBURTON ENERGY SERVICES, INC., for its own use and behoof, and for its legal representatives, successors and assigns, to the full end of the term for which said Letters Patent may be granted, as fully and entirely as the same would have been held by me and had this assignment and sale not been made.

And we do further agree to sign all papers, make all rightful oaths and do all requisite acts for the filing of any disclaimer or for the filing and assignment of any divisional, continuing or reissue application or applications for patent based on the present application, as well as for any other U.S. or foreign application for patent which relates to the said invention.

And we do further agree to communicate to HALLIBURTON ENERGY SERVICES, INC., its successors, assign or other legal representatives, such facts relating to the invention disclosed in the present application or Letters Patent issuing thereon as may be known to me, and to testify as to such facts in any interference or other litigation.

Title: NONLINEAR TOOLFACE CONTROL SYSTEM FOR A ROTARY STEERABLE DRILLING TOOL
Executed this
Yuzhen Xue
i uzaca Auc
STATE OF TEXAS)
COUNTY OF HARRIS)
Before me personally appeared said Yuzhen Xue and acknowledged the foregoing instrument to be his/her free act and deed this day of day of day of day of2014.
Seal <u>Rappin Dali Hullo</u> (Notary)
MADELINE DALE MILLS Notary Public, State of Texas My Commission Expires April 3, 2018

Title: NONLINEAR TOOLFACE CONTROL SYSTEM FOR A ROTARY

STEERABLE DRILLING TOOL

PATENT REEL: 041883 FRAME: 0622

MADELINE DALE MILLS Notary Public, State of Texas My Commission Expires April 3, 2018

Executed thisday of	<u>ler</u> , 2014
	Xiaoqing Ge
STATE OF TEXAS) COUNTY OF HARRIS)	
	Xiaoqing Ge and acknowledged the foregoing I this day of day of 10 Vember_, 2014.
Seal	Madeline Dale Pille
	MADELINE DALE MILLS Notary Public, State of Texas My Commission Expires

Title: NONLINEAR TOOLFACE CONTROL SYSTEM FOR A ROTARY

STEERABLE DRILLING TOOL

April 3, 2018

Executed this	, 2014
	Xingyong Sopg
STATE OF TEXAS) COUNTY OF HARRIS)	
	yong Song and acknowledged the foregoing his 14 day of November, 2014.
Seal	Akadeline Dale Wills (Notary)
	MADELINE DALE MILLS Notary Public, State of Texas My Commission Expires My Commission Expires

Title: NONLINEAR TOOLFACE CONTROL SYSTEM FOR A ROTARY

STEERABLE DRILLING TOOL

PATENT REEL: 041883 FRAME: 0624

Title: NONLINEAR TOOLFACE CONTROL SYST: STEERABLE DRILLING TOOL	EM FOR A ROTARY
Executed thisday of	
Venkata Madhul	Canth Vadali
STATE OF TEXAS)	
COUNTY OF HARRIS)	
Before me personally appeared said Venkata Madhukanth V foregoing instrument to be his/her free act and deed this	n ·
Seal ————————————————————————————————————	Wine Dale Wills
	(Notary)
	MADELINE DALE MILLS Notary Public, State of Texas My Commission Expires April 3, 2018

RECORDED: 04/06/2017

PATENT

REEL: 041883 FRAME: 0625