PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3039231

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
MARK VINCENT COLLINS	04/02/2012
ARTHUR CHENG	04/02/2012

RECEIVING PARTY DATA

Name:	HALLIBURTON ENERGY SERVICES, INC.
Street Address:	10200 BELLAIRE BOULEVARD
City:	HOUSTON
State/Country:	TEXAS
Postal Code:	77072

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	14388197

CORRESPONDENCE DATA

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ATTORNEY DOCKET NUMBER:	1391-865.08
NAME OF SUBMITTER:	VY NGUYEN
SIGNATURE:	/Vy Nguyen/
DATE SIGNED:	09/25/2014

Total Attachments: 3

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PATENT 502992632 REEL: 033822 FRAME: 0662

ASSIGNMENT

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN, BE IT KNOWN, that the undersigned inventor(s), for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, MARK V. COLLINS and ARTHUR CHENG, having made an invention in "ACOUSTIC LOGGING SYSTEMS AND METHODS EMPLOYING MULTI-MODE INVERSION FOR ANISOTROPY AND SHEAR SLOWNESS", while in the employ of HALLIBURTON ENERGY SERVICES, INC., a corporation organized and existing under the laws of the State of Delaware, doing business at 10200 Bellaire Boulevard, Houston, Texas 77072, (sometimes hereinafter called "ASSIGNEE"), do hereby ASSIGN, SELL and CONVEY to said ASSIGNEE, its successors and assigns, the entire right, title and interest throughout the world in and to:

- 1. Said invention in "ACOUSTIC LOGGING SYSTEMS AND METHODS EMPLOYING MULTI-MODE INVERSION FOR ANISOTROPY AND SHEAR SLOWNESS:
- 3. All applications for patent or like protection on said invention that have now been or may in the future be made by us or our legal representatives, 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 said 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 said applications and patents and like grants, including without limitations, those obtained or permissible under past, present and future law and statutes;
- 6. All rights of action on account of past, present and future unauthorized use of said invention for infringement of said patents and like protection;

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- 7. The right to ASSIGNEE to file in its name applications for patents and like protection for said invention in any country or countries foreign to the United States; and
- 8. All international rights of priority associated with said invention, applications, patents and like protection; and

I (or We) covenant that I (or We), my (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.

EXECUTED at Harris County, \(\frac{7}{\text{N}} \), on the \(\frac{2}{n} \) day of \(\frac{\text{April}}{n} \), 2012.	
MARK V. COLLINS	
STATE OF TEXAS § COUNTY OF HARRIS §	
BEFORE ME , the undersigned authority, on this day personally appeared MARK V. COLLINS, 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 day of April , 2012.	
[SEALE COMM. Ex. 04-18-2014] LINDA GAIL TONGBERG Notary Public Notary Public	<i>?</i> }
My Commission Expires: 4-18-2014	

EXECUTED at Lewis County, Tepa., on the 2 day of April, 2012.	
ARTHUR CHENG 3	***************************************
STATE OF <u>Texas</u> § COUNTY OF <u>Hamis</u> §	
BEFORE ME , the undersigned authority, on this day personally appeared ARTHUR CHENG, 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 day of April , 2012.	
LINDA GAIL TONGBERG Notary Public Notary Public Notary Public SEAL]	
My Commission Expires: 4-18-2014	