505160046 10/25/2018

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
ZHONGXING WANG	10/24/2018
YONGYOU YANG	10/24/2018
QINGYUN DI	10/24/2018
ZILI WANG	10/24/2018
WENXUAN CHEN	10/24/2018
TIANXIN ZHANG	10/24/2018
LINFENG HONG	10/24/2018
QIJUN XIE	10/24/2018

RECEIVING PARTY DATA

Name:	INSTITUTE OF GEOLOGY AND GEOPHYSICS CHINESE ACADEMY OF SCIENCES	
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City:	BEIJING	
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PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16170988

CORRESPONDENCE DATA

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NAME OF SUBMITTER:	MICHELLE C. DUNN

PATENT 505160046 REEL: 047315 FRAME: 0064

SIGNATURE:	/Michelle C. Dunn/
DATE SIGNED:	10/25/2018
	This document serves as an Oath/Declaration (37 CFR 1.63).

Total Attachments: 3

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> PATENT REEL: 047315 FRAME: 0065

Attorney Docket No.: 34672_0052 Client Reference No.: G1BJ18US19415-47D1

ASSIGNMENT (Joint)

THIS ASSIGNMENT, by Zhongxing WANG; Yongyou YANG; Oingyun DI; Zili WANG; Wenxuan CHEN; Tianxin ZHANG; Linfeng HONG; Oijun XIE (hereinafter referred to collectively as the "Assignors"), witnesseth:

WHEREAS, said Assignors have invented certain new and useful improvements in:

<u>DOWNHOLE VIBRATION AND IMPACT DATA RECORDING METHOD</u>, set forth in an application for Letters Patent of the United States filed herewith.

WHEREAS, <u>INSTITUTE OF GEOLOGY AND GEOPHYSICS CHINESE</u>

<u>ACADEMY OF SCIENCES</u>, a corporation having a principal place of business at <u>No. 19</u>,

<u>Beitucheng Western Rd</u>, <u>Chaoyang District</u>, <u>Beijing</u>, <u>100029</u>, <u>China</u> (hereinafter referred to as the "Assignee"), is desirous of acquiring the entire right, title and interest in and to said inventions and applications for Letters Patent of the United States, and in and to any Letters Patent or Patents, United States or foreign, to be obtained therefor and thereon:

NOW, THEREFORE, for good and valuable consideration, the receipt and adequacy of which is hereby acknowledged, said Assignors have sold, assigned, transferred and set over, and by these presents do sell, assign, transfer and set over, unto said Assignee, its successors, legal representatives and assigns, Assignor's interest in the entire right, title and interest in and to the above-mentioned inventions, application for Letters Patent, and any and all Letters Patent or Patents in the United States of America and all foreign countries which may be granted therefor and thereon, and in and to any and all divisions, continuations, and continuations-in-part of said application, or reissues or extensions of said Letters Patent or Patents, and all rights under the International Convention for the Protection of Industrial Property, the same to be held and enjoyed by said Assignee, for its own use and behalf and the use and behalf of its successors, legal representatives and assigns, to the full end of the term or terms for which Letters Patent or Patents may be granted, as fully and entirely as the same would have been held and enjoyed by the Assignor, had this sale and assignment not been made; and

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FOR THE SAME CONSIDERATION, said Assignors hereby covenant and agree to and with said Assignee, its successors, legal representatives and assigns, that, at the time of execution and delivery of these presents, said Assignors are the lawful owner of the entire right, title and interest in and to said invention and the application for Letters Patent above mentioned, and that the same is unencumbered and that said Assignors have good and full right and lawful authority to sell and convey the same in the manner herein set forth.; and

FOR THE SAME CONSIDERATION, said Assignors hereby covenant and agree to and with said Assignee, its successors, legal representatives and assigns, that said Assignors will, whenever counsel of said Assignee, or the counsel of its successors, legal representatives and assigns, shall advise that any proceeding in connection with said inventions, or said application for Letters Patent, or any proceeding in connection with Letters Patent for said inventions in any country, including interference proceedings, is lawful and desirable, or that any division, continuation or continuation-in-part of any application for Letters Patent, or any reissue or extension of any Letters Patent, to be obtained thereon, is lawful and desirable, sign all papers and documents, take all lawful oaths, and do all acts necessary or required to be done for the procurement, maintenance, enforcement and defense of Letters Patent for said inventions, without charge to said Assignee, its successors, legal representatives and assigns, but at the cost and expense of said Assignee, its successors, legal representatives and assigns.

IN WITNESS WHEREOF, Assignors have thus set their hands on the date below written.

Date:	10/24/2018	Signature: <u>王</u> 中央
		Zhongxing WANG
Date:	10/24/2018	Signature: ####
Date		Yongyou YANG

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Attorney Docket No.: 34672_0052 Client Reference No.: G1BJ18US19415-47D1

Date:	10/24/2018	Signature: 水丸方
		Qingyun DI
Date:	10/24/2018	Signature: Zili Wang Zili WANG
Date:	10/24/2018	Signature: Wenxuan CHEN
Date:	10/24/2018	Signature: RASE
		Tianxin ZHANG
Date:	10/24/2018	Signature: <u>ラ生 オ</u> よい学 Linfeng HONG
Date:	10/24/2018	Signature: <u>1针存其年</u> Qijun XIE

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PATENT REEL: 047315 FRAME: 0068

RECORDED: 10/25/2018