505050879 08/15/2018

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
DEWEN ZHENG	06/14/2018
ZHIDE WU	06/14/2018
GUOSHENG DING	06/14/2018
HUAYIN ZHU	06/14/2018
JIANFENG LIU	06/14/2018
LINA RAN	06/14/2018
TONG LIN	06/14/2018

RECEIVING PARTY DATA

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PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16102774

CORRESPONDENCE DATA

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NAME OF SUBMITTER:	GOKALP BAYRAMOGLU
SIGNATURE:	/GOKALP BAYRAMOGLU/
DATE SIGNED:	08/15/2018

PATENT 505050879 REEL: 046834 FRAME: 0461

Total Attachments: 2

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PATENT REEL: 046834 FRAME: 0462

ASSIGNMENT

(1-8) Insert Name(s) of Inventor(s)	(1) Dewen ZHENG	(2) Zhide WU
	(3) Guosheng DING	(4) Huayin ZHU
	(5) Jianfeng LIU	(6) Lina RAN
	(7) Tong LIN	

For good and valuable consideration receipt of which is hereby acknowledged, the undersigned agree(s) to assign, and hereby do(es) assign, transfer and set over to:

(9)	Insert name of Assignee	(9) Research Institute of Petroleum Exploration & Development, PetroChina Company Limited	
(10)	Insert state of incorporation of Assignee	(10) China (11) of Department of Petroleum Exploration, PetroChina, 20 Xueyuan Road, Haidian District, Beijing, 100083 China (hereinafter designated as the Assignee) the entire worldwide right, title, interest, and patent applications and patents for every country, including divisions, reissues, continuations and all other extensions, rights and priorities in the invention known as and subject matter contained in	
<i>(11)</i>	Insert address of Assignee		
(12)	Insert Identification of Invention, such as Title, Case Number or Foreign Application Number	(12) A MECHANICAL COUPLING MICROSEISMIC MONITORING SYSTEM	
(13)	Insert Date of Filing of Application	(13) Application is attached hereto.	

- The undersigned agree(s) to execute all papers necessary in connection with the application and any continuing or division applications thereof and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient.
- 2) The undersigned agree(s) to execute all papers necessary in connection with any interference which may be declared concerning this application or continuation or division thereof and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such interference.
- 3) The undersigned agree(s) to execute all papers and documents and perform any act which may be necessary in connection with claims or provisions of the International Convention for Protection of Industrial Property or similar agreements.
- 4) The undersigned agree(s) to perform all affirmative acts which may be necessary to obtain a grant of a valid. United States patent to the Assignee.
- 5) The undersigned hereby authorize(s) and request(s) the Commissioner for Patents and the duly constituted authorities of foreign countries to issue any and all Letters Patents resulting from said application or any division or divisions or continuing or reissue applications thereof to the said Assignee, its successors and assigns, as Assignee of the entire right, title and interest, and hereby covenants that he has (they have) full right to convey the entire interest herein assigned, and that he has (they have) not executed and will not execute, any agreement in conflict herewith.
 - 6) The undersigned hereby grant(s)

Gokalo Bayramoglu, Reg.No. 66305

the power to insert on this assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

PATENT REEL: 046834 FRAME: 0463

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> **PATENT** REEL: 046834 FRAME: 0464

RECORDED: 08/15/2018