

## PATENT ASSIGNMENT COVER SHEET

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<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
GUANGQING ZHANG	01/10/2019
YUANXUN NIE	01/10/2019
CANKUN LIN	01/10/2019
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<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
Application Number:	16257254
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<b>NAME OF SUBMITTER:</b>	DANIEL P. ALEKSYNAS
<b>SIGNATURE:</b>	/DANIEL P. ALEKSYNAS/
<b>DATE SIGNED:</b>	01/28/2019
<b>Total Attachments: 4</b>	
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## ASSIGNMENT

**Title of Invention:** FRACTURING METHOD FOR CREATING COMPLEX CRACK NETWORK BY INTERMITTENT FRACTURING ON SITE

**ASSIGNMENT OF INVENTION:** In consideration of the payment by ASSIGNEES to ASSIGNORS of the sum of One Dollar (\$1.00), the receipt of which is hereby acknowledged, and for other good and valuable consideration, and the successors, assigns and legal representatives of the ASSIGNEE the entire right, title and interest for the United States and any foreign countries, including all rights to claim priority, in and to any and all improvements which are disclosed in the above-referenced application \_\_\_\_\_ filed on \_\_\_\_\_ (and do hereby authorize Assignee or its designee to insert here the application number and filing date) including the right to claim priority in the United States or in any foreign countries, in and to CN 201810927321.4, filed August 16, 2018 (the entire right, title and interest in each such application are also hereby sold, assigned and transferred to Assignee to the extent not already done so), and, in and to, all Letters Patent to be obtained for said invention by the above-referenced application or any continuation, continuation-in-part, division, renewal, or substitute thereof, and as to letters patent any reissue or re-examination thereof, including any and all rights to sue for past damages, ASSIGNOR hereby covenant that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment. ASSIGNOR further covenant that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said invention and said Letters Patent as may be known and accessible to ASSIGNOR and will testify as to the same in any interference, litigation or proceeding related thereto and will promptly execute and deliver to ASSIGNEE or its legal representatives any and all papers, instruments or affidavits required to apply for, obtain, maintain, issue and enforce said United States application, said invention and said Letters Patent which may be necessary or desirable to carry out the purposes thereof.

**ASSIGNORS:** hereby sell, assign and transfer to

**ASSIGNEES:**

1) Guangqing Zhang  
No. 18 Fuxue Road, Changping District  
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CHINA UNIVERSITY OF PETROLEUM-BEIJING  
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Nationality: CN

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2) Yuanxun Nie  
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3) Cankun Lin  
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Nationality: CN

Inventor's  
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Guangqing Zhang  
Guangqing Zhang

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Date:

2019. 1. 10

Citizenship:

CN

**SUBSCRIBING WITNESS AFFIDAVIT OF EXECUTION OF AN ASSIGNMENT**

I, Pu Wang

Whose full post office address is: No. 18 Fu Xue Street, Beijing, 102249, China  
Street, City, Postal Code, Country

Make oath and say that I was personally present and did see Guang qing Zhang who is personally known or identified to me to be the inventor named in the attached assignment, duly sign and execute the same for the purposes therein stated.

Signed at: Beijing

On this 10 day of 1 2019

Pu Wang  
Subscribing Witness

Inventor's  
Signature:

Yuanxun Nie  
Yuanxun Nie

Residence:

Beijing City CHINA

Post Office Address:

No. 18 Fuxue Road, Changping Distr  
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Date:

2019.1.10

Citizenship:

CN

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Make oath and say that I was personally present and did see Yuanxun Nie who is personally known or identified to me to be the inventor named in the attached assignment, duly sign and execute the same for the purposes therein stated.

Signed at: Beijing

On this 10 day of 1, 2019

Pu Wang  
Subscribing Witness

Inventor's  
Signature: Cankun Lin  
Cankun Lin  
Date: 2019.1.10  
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Make oath and say that I was personally present and did see Cankun Lin who is personally known or identified to me to be the inventor named in the attached assignment, duly sign and execute the same for the purposes therein stated.

Signed at: Beijing

On this 10 day of 1, 2019

Pu Wang  
Subscribing Witness