

PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT6017824

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| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | ASSIGNMENT |
| CONVEYING PARTY DATA | |
| Name | Execution Date |
| CHUANZHI CUI | 02/27/2020 |
| ZHONGWEI WU | 02/27/2020 |
| ZHEN WANG | 02/27/2020 |
| TONGYU YAO | 02/27/2020 |
| CHUANBAO ZHANG | 02/27/2020 |
| GUANGZHONG LV | 02/27/2020 |
| YONGPENG REN | 02/27/2020 |
| GANG CAO | 02/27/2020 |
| XIAODUO CUI | 02/27/2020 |
| BO CHEN | 02/27/2020 |
| RECEIVING PARTY DATA | |
| Name: | CHINA UNIVERSITY OF PETROLEUM (EAST CHINA) |
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| Internal Address: | HUANGDAO DISTRICT |
| City: | QINGDAO |
| State/Country: | CHINA |
| Name: | RESEARCH INSTITUTE OF EXPLORATION AND DEVELOPMENT, SHENGLI OILFIELD BRANCH, SINOPEC |
| Street Address: | NO. 2, LIAOCHENG ROAD |
| City: | DONGYING CITY |
| State/Country: | CHINA |
| PROPERTY NUMBERS Total: 1 | |
| Property Type | Number |
| Application Number: | 16821148 |
| CORRESPONDENCE DATA | |
| Fax Number: | |
| <i>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.</i> | |
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| Correspondent Name: | FLENER IP & BUSINESS LAW |
| PATENT | |

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|--------------------------------|-----------|
| ATTORNEY DOCKET NUMBER: | CU-100516 |
|--------------------------------|-----------|

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|---------------------------|----------------------|
| NAME OF SUBMITTER: | AYHAN ERGUN MERTOGLU |
|---------------------------|----------------------|

| | |
|-------------------|------------------|
| SIGNATURE: | /AyhanEMertogul/ |
|-------------------|------------------|

| | |
|---------------------|------------|
| DATE SIGNED: | 03/17/2020 |
|---------------------|------------|

Total Attachments: 4

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UNITED STATES

ASSIGNMENT

In consideration of the payment of ASSIGNEE to ASSIGNOR of the sum of One Dollar (\$1.00), the receipt of which is hereby acknowledged, and for other good and valuable consideration,

ASSIGNOR:

CUI, Chuanzhi
No. 66, Changjiang West Road, Huangdao District,
Qingdao, Shandong Province
China

WU, Zhongwei
No. 66, Changjiang West Road, Huangdao District,
Qingdao, Shandong Province
China

WANG, Zhen
No. 66, Changjiang West Road, Huangdao District,
Qingdao, Shandong Province
China

YAO, Tongyu
No. 66, Changjiang West Road, Huangdao District,
Qingdao, Shandong Province
China

ZHANG, Chuanbao
No. 2, Liaocheng Road,
Dongying City, Shandong Province
China

LV, Guangzhong
No. 2, Liaocheng Road,
Dongying City, Shandong Province
China

REN, Yongpeng
No. 2, Liaocheng Road,
Dongying City, Shandong Province
China

CAO, Gang
No. 2, Liaocheng Road,
Dongying City, Shandong Province
China

CUI, Xiaoduo
No. 2, Liaocheng Road,
Dongying City, Shandong Province
China

and

CHEN, Bo
No. 66, Changjiang West Road, Huangdao District,
Qingdao, Shandong Province
China

hereby sells, assigns and transfers to

ASSIGNEE:

China University of Petroleum (East China)
No. 66, Changjiang West Road, Huangdao District,
Qingdao, Shandong Province
China

Research Institute of Exploration and Development, Shengli Oilfield Branch, Sinopec

No. 2, Liaocheng Road,
Dongying City, Shandong Province
China

and the successors, assigns and legal representatives of the ASSIGNEE the entire right, title and interest for the United States and its territorial possessions in and to, any and all improvements which are disclosed in the Application entitled **METHOD FOR DETERMINING VERTICAL WELL STRATIFIED FRACTURING CRACK LENGTHS BASED ON INTERLAYER EQUILIBRIUM DISPLACEMENT,**

and, in and to, all Letters Patent to be obtained for said invention by the above application or any continuation, division, renewal, or substitute thereof, and as to letters patent and reissue or re-examination thereof.

ASSIGNOR hereby covenants that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment and sale.

ASSIGNOR further covenants that the ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said invention and said Letters Patent and legal equivalents 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 application, said invention and said Letters Patent and said equivalents thereof which may be necessary or desirable to carry out the purposes thereof.

IN WITNESS WHEREOF, I have set my hand and seal

February 27, 2020

Date

CUI, Chuanzhi 崔传智

CUI, Chuanzhi 崔传智

February 27, 2020

Date

WU, Zhongwei 吴忠维

WU, Zhongwei 吴忠维

February 27, 2020

Date

WANG, Zhen 王振

WANG, Zhen 王振

February 27, 2020

Date

YAO, Tongyu 姚同玉

YAO, Tongyu 姚同玉

February 27, 2020

Date

ZHANG, Chuanbao 张传宝

ZHANG, Chuanbao 张传宝

Docket CU-100516

U.S. rights

February 27, 2020

Date

LV, Guangzhong 吕广忠

LV, Guangzhong 吕广忠

February 27, 2020

Date

REN, Yongpeng 任永鹏

REN, Yongpeng 任永鹏

February 27, 2020

Date

CAO, Gang 曹刚

CAO, Gang 曹刚

February 27, 2020

Date

CUI, Xiaoduo 崔晓朵

CUI, Xiaoduo 崔晓朵

February 27, 2020

Date

CHEN, Bo 陈博

CHEN, Bo 陈博