506352670 11/13/2020

PATENT ASSIGNMENT COVER SHEET

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| SUBMISSION TYPE: | NEW ASSIGNMENT |
|-----------------------|----------------|
| NATURE OF CONVEYANCE: | ASSIGNMENT |

CONVEYING PARTY DATA

| Name | Execution Date |
|---------------|----------------|
| BO ZHENG | 10/21/2020 |
| XIAO LI | 10/21/2020 |
| SHOUDING LI | 10/21/2020 |
| JIANMING HE | 10/21/2020 |
| ZHAOBIN ZHANG | 10/21/2020 |
| TIANQIAO MAO | 10/21/2020 |
| GUANFANG LI | 10/21/2020 |
| PENGFEI HE | 10/21/2020 |
| YANFANG WU | 10/21/2020 |

RECEIVING PARTY DATA

| Name: | INSTITUTE OF GEOLOGY AND GEOPHYSICS, CHINESE ACADEMY OF SCIENCES |
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| Street Address: | NO. 19, BEITUCHENG WESTERN ROAD, CHAOYANG DISTRICT, BEIJING |
| City: | BEIJING |
| State/Country: | CHINA |

PROPERTY NUMBERS Total: 1

| Property Type | Number |
|---------------------|----------|
| Application Number: | 17096964 |

CORRESPONDENCE DATA

Fax Number:

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.

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| SIGNATURE: | /Gokalp Bayramoglu/ |

PATENT 506352670 REEL: 054355 FRAME: 0454

DATE SIGNED: 11/13/2020

Total Attachments: 2
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PATENT REEL: 054355 FRAME: 0455

ASSIGNMENT

| | (1) Bo ZHENG | (2) Xiao Li |
|-------------------------------------|-------------------|------------------|
| | (3) Shouding LI | (4) Jianming HE |
| (1-8) Insert Name(s) of Inventor(s) | (5) Zhaobin ZHANG | (6) Tianqiao MAO |
| | (7) Guanfang Ll | (8) Pengfei HE |
| | (9) Yanfang WU | |

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) INSTITUTE OF GEOLOGY AND GEOPHYSICS, CHINESE ACADEMY OF SCIENCES |
|------|---|--|
| (10) | Insert state of incorporation of Assignee | (10) China |
| (11) | Insert address of Assignee | (11) of No. 19, Beitucheng Western Road, Chaoyang District, Beijing 100029 (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 |
| (12) | Insert Identification of Invention, such as Title, Case Number or Foreign Application Number | (12) VISIBLE TEST SYSTEM AND ROCK MASS HEATING METHOD |
| (13) | Insert Date of Filing of Application | (13) Application is attached hereto. |

- 1) 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)

Gokalp Bayramogiu, Reg.No. 66305

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PATENT REEL: 054355 FRAME: 0456

Attorney Docket No. GBGWH023-PKG

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.

| Date 2020, 10. 2 | Bo ZHENG |
|--------------------|--------------------------------|
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| Date 202010 21 | shouding LI |
| Date 2000, 10, 84 | Jianming HE |
| Date 2020 . /0, 2 | 2haobin 2hANG Zhaobin ZHANG |
| Date 2020, 10, 2 | Tiangias Clevo |
| Date '7020, [0, 2] | Guanfang Li Guanfang LI |
| Date 2020.10.2 | Pengfeò HE Pengfei HE |
| Date | Yanfang WU |

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