

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
YUJIE WANG	07/12/2021
RUILANG CAO	07/12/2021
YUFEI ZHAO	07/12/2021
LIPENG LIU	07/12/2021
QIANG SHEN	07/12/2021
JIN PI	07/12/2021
XINGSONG SUN	07/12/2021
SHANGXIN FENG	07/12/2021
LIFENG ZHENG	07/12/2021
RECEIVING PARTY DATA	
Name:	CHINA INSTITUTE OF WATER RESOURCES AND HYDROPOWER RESEARCH
Street Address:	20 CHEGONGZHUANG WEST ROAD
Internal Address:	HAIDIAN DISTRICT
City:	BEIJING
State/Country:	CHINA
Postal Code:	100038
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	17396133
CORRESPONDENCE DATA	
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ATTORNEY DOCKET NUMBER:	7050-4

NAME OF SUBMITTER:	DAVID K. PURKS
SIGNATURE:	/David K. Purks/
DATE SIGNED:	08/06/2021
Total Attachments: 3 source=7050-4_Assignment#page1.tif source=7050-4_Assignment#page2.tif source=7050-4_Assignment#page3.tif	

ASSIGNMENT

THIS ASSIGNMENT, made by us, **Yujie WANG**, a citizen of China, residing in Beijing, China; **Ruilang CAO**, a citizen of China, residing in Beijing, China; **Yufei ZHAO**, a citizen of China, residing in Beijing, China; **Lipeng LIU**, a citizen of China, residing in Beijing, China; and **Qiang SHEN**, a citizen of China, residing in Beijing, China; **Jin PI**, a citizen of China, residing in Beijing, China; **Xingsong SUN**, a citizen of China, residing in Beijing, China; **Shangxin FENG**, a citizen of China, residing in Beijing, China; **Lifeng ZHENG**, a citizen of China, residing in Beijing, China;

WITNESSETH: That,

WHEREAS, we are joint inventors of certain new and useful improvements in **DRILLING DEVICE FOR SURVEYING FRONT ROCK-MASS INTACTNESS OF TUNNEL FACE FOR TUNNEL CONSTRUCTED BY TBM AND METHOD USING THE SAME** for which an application for United States Letters Patent has been filed, or is being concurrently filed, in the United States Patent and Trademark Office, and claims priority to Chinese Patent Application No. 202010981844.4 filed September 17, 2020. I hereby authorize and request Sage Patent Group to insert here in parentheses

(Application No. 17/396,133 filed August 6, 2021) the filing date and application number of said application when known or to file this Assignment concurrently with the application; and

WHEREAS, **China Institute of Water Resources and Hydropower Research**, a corporation having a principal place of business at 20 Chegongzhuang West Road, Haidian District, Beijing 100038, China, hereinafter referred to as assignee, is desirous of acquiring the entire right, title and interest in and to said invention as described in said provisional application, and in and to any and all Letters Patent which shall be granted therefor in the United States of America and all foreign countries;

NOW, THEREFORE, To Whom It May Concern, be it known that for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, we have sold and by these presents do hereby sell, assign, transfer, and convey unto the said assignee, its successors and assigns, the entire right, title, and interest in and to the said invention and provisional application, and in and to any and all subsequent patent applications which claim the benefit of priority from said provisional application including regular utility, continuations, and continuations-in-part, or divisions thereof, and in and to any and all Letters Patent of the United States of America and all foreign countries or reissues or other forms of protection thereof which may be granted for the invention in or on applications claiming the benefit of priority from said

priority from said application in all foreign countries in accordance with the International Convention, the same to be held and enjoyed by said assignee, its successors and assigns, as fully and entirely as the same would have been held and enjoyed by us if this assignment and sale had not been made.

We further covenant and agree that, at the time of the execution and delivery of these presents, we possess full title to the invention and provisional application above-mentioned, and that we have the unencumbered right and authority to make this assignment.

We further covenant and agree to promptly communicate to said assignee or its representatives any facts known to us relating to said invention, to testify in any interference or legal proceedings involving said invention, to execute any additional papers which may be requested to confirm the right of the assignee, its representatives, successors, or assigns to secure patent or similar protection for the said invention in all countries and to vest in the assignee complete title to the said invention and Letters Patent, without further compensation, but at the expense of said assignee, its successors, assigns, and other legal representatives; and we hereby instruct, and further covenant and agree to bind our heirs, legal representatives, and assigns, to do same, without further compensation, but at the expense of said assignee or its representatives.

IN WITNESS WHEREOF, I have hereunto set my hand and seal on this 12th day of July, 2021.

Yujie WANG
Yujie WANG

IN WITNESS WHEREOF, I have hereunto set my hand and seal on this 12th day of July, 2021.

Ruilang CAO
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IN WITNESS WHEREOF, I have hereunto set my hand and seal on this 12th day of July, 2021.

Yufei ZHAO
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IN WITNESS WHEREOF, I have hereunto set my hand and seal on this 12th day of July, 2021.

Lipeng LIU
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IN WITNESS WHEREOF, I have hereunto set my hand and seal on this 12th day of July, 2021.

Qiang SHEN
Qiang SHEN

IN WITNESS WHEREOF, I have hereunto set my hand and seal on this 12th day of July, 2021.

Jin PI
Jin PI

IN WITNESS WHEREOF, I have hereunto set my hand and seal on this 12th day of July, 2021.

Xingsong SUN
Xingsong SUN

IN WITNESS WHEREOF, I have hereunto set my hand and seal on this 12th day of July, 2021.

Shangxin FENG
Shangxin FENG

IN WITNESS WHEREOF, I have hereunto set my hand and seal on this 12th day of July, 2021.

Lifeng ZHENG
Lifeng ZHENG