

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
YISHAN PAN	02/15/2022
LIANPENG DAI	02/15/2022
RECEIVING PARTY DATA	
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Internal Address:	HUANGGU DISTRICT, LIAONING PROVINCE
City:	SHENYANG
State/Country:	CHINA
Postal Code:	110036
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Street Address:	NO. 3-11, WENHUA ROAD
Internal Address:	HEPING DISTRICT
City:	SHENYANG
State/Country:	CHINA
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	17673544
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ATTORNEY DOCKET NUMBER:	35742.04148
NAME OF SUBMITTER:	YIZHOU LIU

SIGNATURE:	/Mary Gillette for YIZHOU LIU/
DATE SIGNED:	06/13/2022
Total Attachments: 3 source=35742.04148 YXIUS73370LNU - Assignment - signed 4856-3351-5535 v.1#page1.tif source=35742.04148 YXIUS73370LNU - Assignment - signed 4856-3351-5535 v.1#page2.tif source=35742.04148 YXIUS73370LNU - Assignment - signed 4856-3351-5535 v.1#page3.tif	

ASSIGNMENT

This Assignment is made and entered into by and between Yishan PAN and Lianpeng DAI (hereinafter "INVENTORS"), and LIAONING UNIVERSITY, No. 66 Chongshan Middle Road, Huanggu District, Shenyang, Liaoning Province 110036, P.R. China and NORTHEASTERN UNIVERSITY, NO. 3-11, Wenhua Road, Heping District, Shenyang, P. R. China (hereinafter referred to as "ASSIGNEES").

Whereas INVENTORS have invented certain inventions described in a United States patent application titled METHOD AND APPARATUS OF CONTROLLING DRILLING FOR ROCK BURST PREVENTION IN COAL MINE ROADWAY, US Patent Application No. 17/673,544, filed February 16, 2022, and have executed the patent application therefor;

Whereas, ASSIGNEES desires to acquire the entire right, title and interest in said applications and inventions, and to any United States and foreign patents to be obtained therefor; and

Now, Therefore, for good and valuable consideration, receipt of which is hereby acknowledged:

1. INVENTORS hereby sell, assign, and transfer to ASSIGNEES, its successors and assigns, the entire right, title and interest, so far as concerns the United States and the Territories and Possessions thereof and all foreign countries, in and to the inventions set forth in said applications including the application for United States Letters Patent executed by the INVENTORS, said applications including said application for United States Letters Patent, any and all other applications for Letters Patent on said inventions in the United States and in countries foreign to the United States, including all divisional, renewal, extension reexamination, substitute, continuation, continuation-in-part, reissue, and Convention applications based in whole or in part upon said inventions or upon said applications, and any and all Letters Patent and reissues and extension of Letters Patent granted for said inventions or upon said applications, and every priority right that is or may be predicated upon or arise from said inventions, said applications and said Letters Patent.

2. ASSIGNEES are hereby authorized to file patent applications in any or all countries on any or all said inventions in the name of the INVENTORS or in the name of

ASSIGNEES or otherwise as ASSIGNEES may deem advisable, under the International Convention or otherwise.

3. The Commissioner of Patents of the United States of America and the empowered officials of all other governments are hereby authorized to issue or transfer all said Letters Patent to ASSIGNEES in accordance herewith.

4. This Assignment is being made under covenant, not only that full power to make the same is had by the INVENTORS, but also that, at the time of execution of this Assignment, such assigned right is not encumbered by any grant, license, governmental restriction, or other right heretofore given.

5. The INVENTORS agree that they will do all acts reasonably serving to assure that said inventions, patent applications and Letters Patent shall be held and enjoyed by ASSIGNEES as fully and entirely as the same could have been held and enjoyed by the INVENTORS if this Assignment had not been made, and particularly to execute and deliver to ASSIGNEES all lawful documents including petitions, specifications, oaths, assignments, invention disclaimers, lawful affidavits, and declarations in form and in substance which may be requested by ASSIGNEES, to furnish ASSIGNEES with all facts relating to said inventions or the history thereof and any and all documents, photographs, models, samples or other physical exhibits which may be useful for establishing the facts of conception, disclosure and reduction to practice of said inventions, and to testify in any proceedings relating to said inventions, patent applications and Letters Patent.

6. INVENTORS agree that this Assignment shall be construed in accordance with the laws and courts of Ohio. INVENTORS hereby also agree to submit to the jurisdiction of any Ohio court.

7. INVENTORS acknowledge and understand that the law firm of Calfee, Halter & Griswold LLP and its attorneys represent ASSIGNEES and INVENTORS acknowledge and understand that they are not the clients of Calfee, Halter & Griswold, LLP.

8. INVENTORS acknowledge and understand that they have the opportunity to consult with independent legal counsel prior to executing this Assignment.

9. INVENTORS hereby request that ASSIGNEES or their counsel enter or correct the date(s) of execution of the afore-referenced Patent Application(s), and enter or correct the Application Serial Numbers if available, prior to recording this Assignment, to have the same effect as if entered prior to execution of this Assignment.

Signature:
Yishan PAN
Yishan PAN

2022.2.15
Date

Signature:
Lianpeng DAI
Lianpeng DAI

2022.2.15
Date