

## 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>
XIANLEI XU	06/01/2020
SUPING PENG	06/01/2020
ZHENG MA	06/01/2020
BIAO GUO	06/01/2020
TAO SUN	06/01/2020
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<b>City:</b>	BEIJING
<b>State/Country:</b>	CHINA
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	16897363
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<b>NAME OF SUBMITTER:</b>	RICHARD C. HIMELHOCH
<b>SIGNATURE:</b>	/Richard C. Himelhoch/
<b>DATE SIGNED:</b>	06/10/2020
<b>Total Attachments: 3</b>	

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## ASSIGNMENT

Application No. 16/897,363

Filed: June 10, 2020

IN CONSIDERATION of one dollar and other good and valuable considerations, the receipt of which is hereby acknowledged, the entire right, title and interest in the invention or improvements of the undersigned in "INTELLIGENT DETECTION AND RECOGNITION SYSTEM AND METHOD FOR COAL-ROCK INTERFACE OF MINE" and in the application for Letters Patent of the United States therefor, executed by the undersigned concurrently herewith and in any reissue or extension of any Letters Patent that may be granted upon said application are hereby assigned by the undersigned to **China University of Mining and Technology-Beijing**, having a place of business at Ding, No. 11 Xueyuan Road, Haidian District, Beijing, China, and the successors, legal representatives and assigns of **China University of Mining and Technology-Beijing** (hereinafter collectively called said Assignee), and the Commissioner of Patents is hereby authorized and requested by the undersigned to issue said Letters Patent to said Assignee.

FOR SAID CONSIDERATIONS it is hereby agreed by the undersigned, upon the request of said Assignee, to execute any necessary and proper oaths or affidavits relating to said application or required for the filing or prosecution of any divisional, continuation or continuation-in-part application thereof or for the filing or prosecution of any application for the reissue or extension of any Letters Patent that may be granted on said invention or improvements that said Assignee may deem necessary or expedient, and for the said consideration it is further agreed by the undersigned, upon the request of said Assignee, in the event of said application or any division thereof, or Letters Patent issued thereon, or any reissue or application for the reissue thereof, becoming involved in interference, to cooperate to the best of the ability of the undersigned with said Assignee in the matters of preparing and executing the preliminary statement and giving and producing evidence in support thereof, and further to perform, upon such request, any and all affirmative acts to obtain said Letters Patent and vest all rights therein hereby conveyed in the said Assignee as fully and entirely as the same would have been held and enjoyed by the undersigned if this Assignment and sale had not been made. And for the said considerations the entire right, title and interest in said invention or improvements, including all priority rights, and the right to claim priority rights and the privileges and benefits thereof, including those under the International Convention, and all other conventions, and the right to file applications for patent in said Assignee's own name for said invention or improvements in each and every country of the world are hereby Assigned and granted by the undersigned to said Assignee. It is further agreed by the undersigned, upon the request of said Assignee, to execute any and all documents that shall be required of the undersigned to be executed in connection with any and all applications for foreign letters patent therefor, including the prosecution thereof, and to execute any and all documents necessary to vest title in said foreign applications and patents in said Assignee. The attorneys of record in said application for patent are hereby authorized and requested by the undersigned to insert in this Assignment the date and Serial Number thereof in the places provided therefor.

WITNESS our hand and seal

Xianlei XU  
Xianlei XU

June 1, 2020  
Date

Signed before me, this 1st day of June, 2020.

Qiang ZHOU

Witness Signature

Qiang ZHOU

Witness Name (printed)

ASSIGNMENT

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Suping Peng June 1, 2020  
Suping PENG Date

Signed before me, this 1st day of June, 2020.

Qiang ZHOU  
Witness Signature

Qiang ZHOU  
Witness Name (printed)

Zheng MA June 1, 2020  
Zheng MA Date

Signed before me, this 1st day of June, 2020.

Qiang ZHOU  
Witness Signature

Qiang ZHOU  
Witness Name (printed)

Biao GUO June 1, 2020  
Biao GUO Date

Signed before me, this 1st day of June, 2020.

Qiang ZHOU  
Witness Signature

Qiang ZHOU  
Witness Name (printed)

81889

ASSIGNMENT

Page 3

Tao Sun  
Tao SUN

June 1, 2020  
Date

Signed before me, this 1st day of June, 2020.

Qiang ZHOU  
Witness Signature

Qiang ZHOU  
Witness Name (printed)

81889