504179234 01/16/2017

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
BAIQUAN LIN	01/09/2017
FAZHI YAN	01/09/2017
CHUANJIE ZHU	01/09/2017
CHANG GUO	01/09/2017
QUANLE ZOU	01/09/2017
TING LIU	01/09/2017
YIDU HONG	01/09/2017
HAO YAO	01/09/2017

RECEIVING PARTY DATA

Name:	CHINA UNIVERSITY OF MINING AND TECHNOLOGY	
Street Address:	NO. 1 UNIVERSITY ROAD XUZHOU	
Internal Address:	SCIENCE ACADEMY OF CHINA UNIVERSITY OF MINING AND TECHNOLOGY	
City:	JIANGSU	
State/Country:	CHINA	
Postal Code:	221116	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15325662

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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ATTORNEY DOCKET NUMBER: JW.116

NAME OF SUBMITTER: DAVID R. SALIWANCHIK

PATENT REEL: 040976 FRAME: 0703

SIGNATURE:	/David R. Saliwanchik/
DATE SIGNED:	01/16/2017
Total Attachments: 9	
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PATENT REEL: 040976 FRAME: 0704

ASSIGNMENT

WHEREAS, We, the undersigned, residing at the indicated addresses given below, respectively, have invented certain new and useful improvements in **Downhole Coal Seam Pulse Detonation Wave Directional Fracturing Permeability-Increasing Method**, for which an application for United States Letters Patent was

	is att	ached he	rev	vith					
\boxtimes	filed	January	11,	2017,	as	Serial	No.	15/32	5,662

WHEREAS, **China University of Mining and Technology**, having a place of business at Science Academy of China University of Mining and Technology, No. 1 University Road Xuzhou, Jiangsu 221116, China, is desirous of acquiring the entire right, title, and interest in and to said invention and in and to any Letters Patent which may be granted therefor in the United States and in any and all foreign countries;

NOW, THEREFORE, in view of valuable consideration, receipt of which is hereby acknowledged, we, the undersigned, have sold, assigned, and transferred, and by these presents do sell, assign, and transfer, unto said **China University of Mining and Technology**, its successors and assigns, the full and exclusive right to the said invention in the United States and its territorial possessions and in all foreign countries and the entire right, title, and interest in and to any and all Letters Patent which may be granted therefor in the United States and its territorial possessions and in any and all foreign countries and in and to any and all divisions, reissues, continuations, and extensions thereof.

We hereby authorize and request the Patent Office Officials in the United States and in any and all foreign countries to issue any and all of said Letters Patent, when granted, to China University of Mining and Technology, as the assignee of the entire right, title, and interest in and to the same, for the sole use and behoof of said China University of Mining and Technology, its successors and assigns.

FURTHER, We agree that we will communicate to said **China University of Mining and Technology**, or its representatives, any facts known to us respecting said invention; testify in any legal proceedings; sign all lawful papers; execute all divisional, continuation, substitution, renewal, and reissue applications; execute all necessary assignment papers to cause any and all of said Letters Patent to be issued to said **China University of Mining and Technology**; make all rightful oaths; and generally do everything possible to aid the said **China University of Mining and Technology**, its successors and assigns, to obtain and enforce proper protection for said invention in the United States and in any and all foreign countries.

CHINA

	STATEMENT	BY WITNESS	
ſ,	(name of witness)	, whose full post of	fice
	` ,	of Mining and Technology No. 1 University	y Road
	(address o	f witness)	·
		id see the above-named person, personally kn duly sign and execute the same.	iown
Date: Jan 9	, >017	(signature of witness)	

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Page 2 of 9 pages

IN TESTIMONY WHEREOF, I have, 2017.	hereunto set my hand this 9th day of
Signed_ Address:	Fazhi Yan c/o China University of Mining and Technology Science Academy of China University of Mining and Technology No. 1 University Road Xuzhou Jiangsu 221116 CHINA
STATEME	NT BY WITNESS
I, (name of witne address is Science Academy of China Univer Xuzhou, Jiangsu 221116, China	ess) sity of Mining and Technology No. 1 University Road
(addre	ess of witness)
hereby declare that I was personally present at to me to be the person named in the assignment	and did see the above-named person, personally known ent, duly sign and execute the same.
Date: Jan 9, 201	(signature of witness)

Page 3 of 9 pages

IN TESTIMONY, 2017.	WHEREOF, I hav	e hereunto set my hand th	his 9th day of
	Signed		of Mining and Technology China University of Mining
		ENT BY WITNESS	
I,	Wei d		, whose full post office
	(name of with	ess)	nology No. 1 University Road
- 138 H. A.	(addr	ess of witness)	
hereby declare that I was p to me to be the person na	personally present a med in the assignm	nd did see the above-nam ent, duly sign and execut	e the same.
Date: Jan 9, 201	7	Wes Lignature	e of witness)

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Page 4 of 9 pages

Signed_Address:	Chang Guo Chang Guo Co China University of Mining and Technology Science Academy of China University of Mining and Technology No. 1 University Road Xuzhou Jiangsu 221116 CHINA
STATEME	NT BY WITNESS
I, (name of witne address is Science Academy of China Univers Xuzhou, Jiangsu 221116, China	, whose full post office ss) sity of Mining and Technology No. 1 University Road
(addre	ss of witness)
hereby declare that I was personally present and to me to be the person named in the assignment	ad did see the above-named person, personally known ent, duly sign and execute the same.
Date: Jan 9, 201	(signature of witness)

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Page 5 of 9 pages

	Docket No. JW.116
IN TESTIMONY WHEREOF, I have hereunt Jam, 2017.	o set my hand this 9th day of
Quante Address: C/o Ch Science and Te No. 1 U	na University of Mining and Technology Academy of China University of Mining chnology Iniversity Road Xuzhou 1221116
STATEMENT BY	WITNESS
I, (name of witness) address is Science Academy of China University of M Xuzhou, Jiangsu 221116, China	, whose full post office
(address of wit	ness)
hereby declare that I was personally present and did sector me to be the person named in the assignment, duly	the above-named person, personally known sign and execute the same.

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Date: Jan 9, 201]

Page 6 of 9 pages

	Sign Address:	Ting Liu c/o China University of Mining and Technology Science Academy of China University of Mining and Technology No. 1 University Road Xuzhou Jiangsu 221116 CHINA
	STATEN	MENT BY WITNESS
	(name of wit emy of China Uni Jiangsu 221116,	ness) versity of Mining and Technology No. 1 University
	(add	dress of witness)
hereby declare that I was to me to be the person na	personally present imed in the assign	and did see the above-named person, personally known ment, duly sign and execute the same.
Date: Jan 9, 20		(signature of witness)

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Page 7 of 9 pages

IN TESTIMONY WHI	EREOF, I have	hereunto set my l	nand this	9th c	lay of
	Signed_	Yidu Hong c/o China Unive Science Academ and Technology No. 1 University Jiangsu 221116 CHINA	rsity of Mini y of China U	niversity of M	
	STATEME	NT BY WITNESS	8		
		ss)		vhose full post o	
hereby declare that I was person to me to be the person named i	nally present an	ss of witness) d did see the above nt, duly sign and e	e-named perso execute the sa	on, personally k me.	nown
Date: Joy 9, 201		(Sig	nature of with	ness)	

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Page 8 of 9 pages

	20000110, 311.110
IN TESTIMONY WHEREOF, I have, 2017.	hereunto set my hand this day of
Signed_Address:	Hao Yao c/o China University of Mining and Technology Science Academy of China University of Mining and Technology No. 1 University Road Xuzhou Jiangsu 221116 CHINA
STATEME	NT BY WITNESS
1,	, whose full post office ss) sity of Mining and Technology No. 1 University Road
(addre	ss of witness)
hereby declare that I was personally present and to me to be the person named in the assignment	ad did see the above-named person, personally known ent, duly sign and execute the same.
Date:	(signature of witness)

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PATENT REEL: 040976 FRAME: 0713