

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
Shuca LI	04/11/2022
Bin LIU	04/07/2022
Xinji XU	04/01/2022
Lei CHEN	04/01/2022
Chao FU	04/01/2022
Lei HAO	04/01/2022
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Property Type	Number
Application Number:	17769909
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NAME OF SUBMITTER:	ISABEL ZHONG
SIGNATURE:	/Isabel Zhong/
DATE SIGNED:	04/18/2022

Total Attachments: 2

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**ASSIGNMENT (BEING FILED FOR DUAL PURPOSE UNDER 37 CFR 1.63(e))
For Application with Filing Date on or after September 16, 2012**

ASSIGNMENT

(1-8)	Insert Legal Name(s) of Inventor(s)	(1) <u>Shucui LI</u> (3) <u>Xinji XU</u> (5) <u>Chao FU</u> (7) _____	(2) <u>Bin LIU</u> (4) <u>Lei CHEN</u> (6) <u>Lei HAO</u> (8) _____
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In consideration of the sum of one dollar (\$1.00) and other good and valuable consideration paid to each of the undersigned, the receipt and sufficiency of which are hereby acknowledged, each undersigned agrees to assign, and hereby does assign, transfer and set over to

(9)	Insert Name of Assignee	(9) <u>SHANDONG UNIVERSITY</u>
(10)	Insert Address of Assignee	(10) <u>No. 17923, Jingshi Road, Lixia District, Jinan, Shandong 250061, CHINA</u>

(hereinafter designated as the Assignee) and Assignee's heirs, successors, assigns and legal representatives, the entire right, title and interest for the United States of America as defined in 35 U.S.C. §100, in the invention, and in all applications for patent including any and all provisional, non-provisional, divisional, continuation, international, substitute and reissue application(s), and all Letters Patent, extensions, reissues and reexamination certificates that may be granted on the invention known as

(11)	Insert Identification such as Title, Case Number, or Foreign Application Number	(11) <u>SYSTEM AND METHOD FOR PHASED ARRAY SOUND WAVE ADVANCED GEOLOGICAL EXPLORATION FOR SHIELD TUNNELING MACHINE</u>
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(Attorney Docket No. 220051), filed on even date herewith or as

(12)	Alternative Identification for filed applications	(12) U.S. Application Number _____ filed _____
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1) Each undersigned agrees to execute all papers necessary in connection with any application and/or patent for the invention and also to execute separate assignments in connection with such applications and patents as the Assignee may deem necessary.

2) Each undersigned agrees to execute all papers necessary in connection with any interference or post-grant proceeding which may be declared concerning any application or patent for the invention and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such interference or post-grant proceeding.

3) Each undersigned agrees 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) Each undersigned agrees to perform all affirmative acts which may be necessary to obtain, maintain or confirm by reissue or reexamination a grant of a valid United States patent to the Assignee.

5) Each undersigned authorizes and requests the Commissioner of the U.S. Patent and Trademark Office to issue any and all patents resulting from said application(s) to the said Assignee, as Assignee of the entire interest, and covenants that he or she has full right to convey the entire interest herein assigned, and that he or she has not executed, and will not execute, any agreement(s) in conflict herewith, and agrees that this assignment is binding on Assignor and Assignor's heirs, successors, assigns and legal representatives.

6) Each undersigned hereby grants the firm of **OLIFF PLC** the power to insert on this assignment any further identification that 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.

(13) Declaration

As an above named inventor, I hereby declare that:

I believe I am the original inventor or an original joint inventor of a claimed invention (or claimed design) in the above-identified application for which this declaration is being submitted.

The application was made or authorized to be made by me.

I have reviewed and understand the contents of the above-identified application, including the claims, and am aware of the duty to disclose to the Office all information known to me to be material to patentability as defined in 37 CFR §1.56.

I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.

In witness whereof, executed by the undersigned on the date(s) opposite the undersigned name(s).

Date 2022.4.11 Inventor Signature Shucan Li (SEAL)
Shucan LI

Date 2022.4.7 Inventor Signature Bin LIU (SEAL)
Bin LIU

Date 2022.4.1 Inventor Signature Xinji XU (SEAL)
Xinji XU

Date 2022.4.1 Inventor Signature Lei CHEN (SEAL)
Lei CHEN

Date 2022.4.1 Inventor Signature Chao FU (SEAL)
Chao FU

Date 2022.4.1 Inventor Signature Lei HAO (SEAL)
Lei HAO

Date _____ Inventor Signature _____ (SEAL)

Date _____ Inventor Signature _____ (SEAL)

This assignment should preferably be signed before: (a) a Notary Public if within the U.S.A. (b) a U.S. Consul if outside the U.S.A. If neither, then it should be signed before at least two witnesses who also sign here:

Date _____ Witness _____

Date _____ Witness _____