

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
SHAOBIN HU	02/23/2023
YUKANG CAI	02/23/2023
LINGZHI XI	02/23/2023
HUAI YANG	02/23/2023
ZHENGYONG YAN	02/23/2023
SHUOGANG PANG	02/23/2023
QIANG ZHANG	02/23/2023
CHEN LI	02/23/2023
LIN ZHANG	02/23/2023
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PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	17745882
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ATTORNEY DOCKET NUMBER: 121947-US-PA

NAME OF SUBMITTER: JAI-WEI CHEN

SIGNATURE: /Jai-Wei Chen/

DATE SIGNED: 03/02/2023

Total Attachments: 4

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**DECLARATION AND ASSIGNMENT
FOR UTILITY OR DESIGN PATENT APPLICATION**

Declaration Submitted With Initial Filing

OR

Declaration Submitted After Initial Filing (surcharge 37 CFR 1.16(f) required)

(Title of the Invention)

**SUPERCritical FLUID DRILLING AND BLASTING INTEGRATED
DOUBLE-ARM DRILL JUMBO AND CONTROL METHOD THEREOF**

As a below named inventor (hereinafter designated as the undersigned), I hereby
declare that:

This declaration is directed to:

The attached application,

OR

United States Application Number or PCT International application number

17/745,882 Filed on 2022/05/17

The above-identified application was made or authorized to be made by me.

I believe I am the original inventor or an original joint inventor of a claimed invention in
the application.

The undersigned 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.

**DECLARATION AND ASSIGNMENT
FOR UTILITY OR DESIGN PATENT APPLICATION**

WHEREAS, the undersigned has invented certain new and useful improvements described in the application identified.

WHEREAS, 1. HOHAI UNIVERSITY
of No.1, Xikang Road, Gulou District, Nanjing, Jiangsu 210024, China
, 2. POWERCHINA Huadong Engineering Corporation Limited
of No.22, Chaowang Road, Hangzhou, Zhejiang 310014 China

hereinafter referred to as ASSIGNEE, is desirous of acquiring the undersigned's interest in the said invention and application and in any U.S. Letters Patent which may be granted on the same:

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN: Be it known that, for good and valuable consideration, receipt of which is hereby acknowledged by the undersigned, the undersigned has/have sold, assigned and transferred, and by these presents does/do sell, assign and transfer unto the said Assignee, and Assignee's successors and assigns, all his/her/their rights, title and interest in and to the said invention and application and all future improvements thereon, and in and to any Letters Patent which may hereafter be granted on the same in the United States, the said rights, title and interest to be held and enjoyed by said Assignee as fully and exclusively as it would have been held and enjoyed by said the undersigned had this Assignment and transfer not been made, to the full end and term of any Letters Patent which may be granted thereon, or of any division, renewal, continuation in whole or in part, substitution, conversion, reissue, prolongation or extension thereof.

The undersigned further agrees/agree that he/she/they will, without charge to said Assignee, but at Assignee's expense, cooperate with Assignee in the prosecution of said application and/or applications, execute, verify, acknowledge and deliver all such further papers, including applications for Letters Patent and for the reissue thereof, and instruments of assignment and transfer thereof, and will perform such other acts as Assignee Lawfully may request, to obtain or maintain Letters Patent for said invention and improvement, and to vest title thereto in said Assignee, or Assignee's successors and assigns.

**DECLARATION AND ASSIGNMENT
FOR UTILITY OR DESIGN PATENT APPLICATION**

Signature: Shaobin HU Date: Feb. 23. 2023

Legal Name of Sole or First Inventor: **Shaobin HU**

Residence: Jiangsu, China

Mailing Address: No.1, Xikang Road, Gulou District, Nanjing, Jiangsu 220024, China

Signature: Yukang Cai Date: Feb. 23. 2023

Legal Name of Additional Joint Inventor, if any: **Yukang CAI**

Residence: Jiangsu, China

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Signature: lingzhi XI Date: Feb. 23. 2023

Legal Name of Additional Joint Inventor, if any: **lingzhi XI**

Residence: Zhejiang, China

Mailing Address: No.22, Chaowang Road, Hangzhou, Zhejiang 310014 China

Signature: huai YANG Date: Feb. 23. 2023

Legal Name of Additional Joint Inventor, if any: **huai YANG**

Residence: Zhejiang, China

Mailing Address: No.22, Chaowang Road, Hangzhou, Zhejiang 310014 China

Signature: Zhengyong Yan Date: Feb. 23. 2023

Legal Name of Additional Joint Inventor, if any: **Zhengyong YAN**

Residence: Jiangsu, China

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**DECLARATION AND ASSIGNMENT
FOR UTILITY OR DESIGN PATENT APPLICATION**

Signature: Shuogang PANG Date: Feb. 23. 2023

Legal Name of Additional Joint Inventor, if any: **Shuogang PANG**

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Mailing Address: No.1, Xikang Road, Gulou District, Nanjing, Jiangsu 220024, China

Signature: qiang Zhang Date: Feb. 23. 2023

Legal Name of Additional Joint Inventor, if any: **qiang ZHANG**

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Signature: chen li Date: 2023. 2. 23

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Signature: Lin Zhang Date: Feb. 23. 2023

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