

<b>PATENT ASSIGNMENT COVER SHEET</b>
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 Stylesheet Version v1.2

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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>
KAI ZHANG	03/13/2022
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	CNPC USA CORPORATION
<b>Street Address:</b>	2901 WILCREST DRIVE, SUITE 600
<b>City:</b>	HOUSTON
<b>State/Country:</b>	TEXAS
<b>Postal Code:</b>	77042
<b>Name:</b>	BEIJING HUAMEI INC.
<b>Street Address:</b>	NO. 23 TAIYANGGONG SOUTH ST, CHAO YANG DIST.
<b>City:</b>	BEIJING
<b>State/Country:</b>	CHINA
<b>Name:</b>	CHINA NATIONAL PETROLEUM CORPORATION
<b>Street Address:</b>	9 DONGZHIMEN NORTH STREET, DONGCHENG DISTRICT
<b>City:</b>	BEIJING
<b>State/Country:</b>	CHINA
<b>Postal Code:</b>	100007
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	17654721
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(312)427-6663
<i>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.</i>	
<b>Phone:</b>	3124271300
<b>Email:</b>	ChicagoUSPTO@ladas.net
<b>Correspondent Name:</b>	RICHARD J. STREIT
<b>Address Line 1:</b>	LADAS & PARRY, 224 SOUTH MICHIGAN AVE.
<b>Address Line 4:</b>	CHICAGO, ILLINOIS 60604
<b>ATTORNEY DOCKET NUMBER:</b>	CU-75563 RJS/MB

<b>NAME OF SUBMITTER:</b>	RICHARD J. STREIT
<b>SIGNATURE:</b>	/RICHARD J. STREIT/
<b>DATE SIGNED:</b>	03/14/2022
<b>Total Attachments: 3</b> source=CU-75563_Assignment_and_Declaration#page1.tif source=CU-75563_Assignment_and_Declaration#page2.tif source=CU-75563_Assignment_and_Declaration#page3.tif	

DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION  
USING AN APPLICATION DATA SHEET (37 CFR 1.76) AND ASSIGNMENT

TITLE OF INVENTION: A UNIQUE PDC MICROSTRUCTURE AND THE METHOD OF  
MAKING IT

OATH/DECLARATION:

As a below named inventor, I hereby declare that:

This declaration is directed to: (check (and complete) one)

- The attached application, or
- United States application or PCT international application  
Number \_\_\_\_\_ filed on \_\_\_\_\_  
*(If the application is being filed as a 371 US national stage of the PCT  
international application, insert the PCT application number and filing date)*

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

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

I have reviewed and understand the contents of the above identified specification, including the claims.

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.

ASSIGNMENT

For good and valuable consideration, the receipt, sufficiency and adequacy of which are hereby acknowledged, the below named inventor (hereinafter referred to as ASSIGNOR"), do hereby:

Sell, assign and transfer to CNPC USA CORPORATION  
a corporation of U.S., whose mailing address is 2901 Wilcrest Dr. Houston, TX 77042, (herein referred to as "ASSIGNEE"),

Sell, assign and transfer to Beijing Huamei, Inc.  
a corporation of CHINA, whose mailing address is No. 23 Taiyanggong South St. Chao Yang District, Beijing China, 102200 (herein referred to as "ASSIGNEE"), and

Sell, assign and transfer to China National Petroleum Corporation

a corporation of CHINA, whose mailing address is No. 9 Dongzhimen North Street, Dongcheng District, Beijing, P.R. China, 100007, (herein referred to as "ASSIGNEE"),

the entire right, title and interest for the United States and its territorial possessions in and to, any and all improvements which are disclosed in the above-identified application


and which claims priority to \_\_\_\_\_ filed on \_\_\_\_\_

which in turn claims priority to \_\_\_\_\_ filed on \_\_\_\_\_

and, in and to, all Letters Patent to be obtained for said invention by the above application or any continuation, division, renewal, or substitute thereof, and as to letters patent any reissue or re-examination thereof.

ASSIGNOR hereby covenants that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment and sale.

ASSIGNOR further covenants that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said invention and said Letters Patent and legal equivalents as may be known and accessible to ASSIGNOR and will testify as to the same in any interference, litigation or proceeding related thereto and will promptly execute and deliver to ASSIGNEE or its legal representatives any and all papers, instruments or affidavits required to apply for, obtain, maintain, issue and enforce said application, said invention and said Letters Patent and said equivalents thereof which may be necessary or desirable to carry out the purposes thereof.

<b>LEGAL NAME OF INVENTOR:</b>	
<b>Given Name (first and middle [if any]):</b> Kai	<b>Family or Surname:</b> ZHANG
<b>Inventor' signature:</b> 	<b>Date:</b> 3/13/2022
<b>LEGAL NAME OF INVENTOR:</b>	
<b>Given Name (first and middle [if any]):</b>	<b>Family or Surname:</b>
<b>Inventor' signature:</b>	<b>Date:</b>

**DECLARATION**

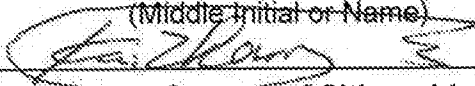
I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

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**SIGNATURE(S)**

*Note: Carefully indicate the family (or last) name, as it should appear on the filing receipt and all other documents.*

**Full name of first joint inventor**

Kai ZHANG  
(Given Name) (Middle Initial or Name) (Family (or Last) Name)  
Inventor's signature   
Date 03/13/2022 Country of Citizenship USA  
Residence 4938 Mesa Verde Road, Charlotte, NC 28277  
Post Office Address 2901 Wilcrest Dr, Houston, TX 77042

**Full name of second joint inventor**

(Given Name) (Middle Initial or Name) (Family (or Last) Name)  
Inventor's signature \_\_\_\_\_  
Date \_\_\_\_\_ Country of Citizenship \_\_\_\_\_  
Residence \_\_\_\_\_  
Post Office Address 2901 Wilcrest Dr, Houston, TX 77042