

## PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT7323415

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
GE JIN	08/01/2019
BAISHALI ROY	08/01/2019
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	CONOCOPHILLIPS COMPANY
<b>Street Address:</b>	925 N. ELDRIDGE PARKWAY
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<b>City:</b>	HOUSTON
<b>State/Country:</b>	TEXAS
<b>Postal Code:</b>	77079
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
Application Number:	17741197
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	
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<b>Phone:</b>	281-293-1460
<b>Email:</b>	Legal-IP@conocophillips.com
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<b>Address Line 4:</b>	HOUSTON, UNITED STATES 77079
<b>ATTORNEY DOCKET NUMBER:</b>	42478US03
<b>NAME OF SUBMITTER:</b>	SANDRA ANDRESS
<b>SIGNATURE:</b>	/SANDRA ANDRESS/
<b>DATE SIGNED:</b>	05/10/2022
<b>Total Attachments: 4</b>	
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<b>Assignment of Rights, Title and Interest in Invention and Declaration of Invention</b>	<b>Docket No.:</b> <b>42478US02</b>
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As the below named inventor(s), I/we declare that this document is an Assignment of the rights, title and interest and a Declaration of Invention directed to:

- ☒ *Rights, title and interest in the invention including United States applications and patents*
- ☒ *United States Provisional Patent Application Serial No. 62/573486 filed 10/17/17*
- ☒ *United States Utility Patent Application Serial No. 16/163115 filed 10/17/18*
- ☐ *United States Patent No(s). \_\_\_\_\_*
- ☒ *Foreign rights, title and interest in the invention including international applications and patents*
- ☒ *International (PCT) Patent Application Serial No PCT/US18/56327 filed 10/17/18*
- ☐ *Other (specify) \_\_\_\_\_*
- ☒ *This declaration is directed to the international application of which it forms a part*
- ☒ *This declaration is directed to the United States Application submitted herewith*

*Direct all correspondence to the address associated with Customer No.: 28841*

**Title of the Invention**

**LOW FREQUENCY DISTRIBUTED ACOUSTIC SENSING HYDRAULIC  
FRACTURE GEOMETRY**

Whereas, I/we, the below-identified Inventor(s), have invented certain new and useful improvements in the Invention identified above and described in the above-identified patent application(s) and/or patent(s) (hereinafter referred to as "Invention").

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

I/we believe that I/we are the original inventor(s) of the claimed invention in the application.

I hereby declare that my residence, mailing address, and citizenship are as stated next to my name.

I acknowledge the duty to disclose to the United States Patent and Trademark Office all information known to me to be material to patentability as defined in 37 CFR 1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application date and any subsequent application.

I hereby state that I have reviewed and understand the contents of the above-identified application, including the claims of said application and if applicable any amendment specifically referred to above.

I have reviewed any claim to priority, and I have identified above any prior application number with day, month and year of filing, including any international applications.

If applicable, I have identified in the request of any international application, in compliance with PCT Rule 4.10, any claim to foreign priority,

I/we desire to assign my/our above-identified rights, title and interest in the Invention to the Assignee;

Therefore, for valuable consideration, the receipt of which is acknowledged, I/we hereby assign, sell and transfer my/our above-identified rights, title and interest in said Invention, said

**Assignment of Rights, Title and Interest in Invention  
and Declaration of Invention**

**Docket No.:**  
**42478US02**

application(s) as identified above, including any divisions, continuations, and continuations-in-part thereof, and any and all Letters Patent of the United States, and countries foreign thereto, which may be granted or have granted for said Invention, and any and all reissues and reexaminations thereof, and to any and all priority rights, Convention rights, and other benefits accruing or to accrue to us with respect to the filing of applications for patents or securing of patents in the United States and countries foreign thereto, unto said Assignee;

I/we hereby authorize and request the Director of the United States Patent and Trademark Office to issue any United States Letters Patent which may issue for said Invention to said Assignee, as assignee of the whole right title and interest thereto;

I/we agree to sign and execute all necessary and lawful documents, including applications for foreign patents, for filing divisions, continuations and continuations-in-part of said application for patent, and/or, for obtaining any reissue or reissues of any Letters Patent which may be granted for my aforesaid Invention, as the Assignee or its Designee(s) may from time to time require and prepare at its own expense.

Further, this assignment and declaration is intended to be utilized as the required oath of declaration under Rule Paragraph 1.63.

I/we 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.

**Assignors**

<b>First Inventor:</b> <u>Ge JIN</u>	<b>Address:</b> <u>925 N. Eldridge Parkway, Houston, TX 77079</u>
<b>Signature:</b> <u>[Signature]</u>	<b>Citizenship:</b> <u>Chinese</u> <b>Date:</b> <u>8/1/2019</u>
<b>Second Inventor:</b> <u>Baishali ROY</u>	<b>Address:</b> <u>925 N. Eldridge Parkway, Houston, TX 77079</u>
<b>Signature:</b> <u>Baishali Roy</u>	<b>Citizenship:</b> <u>USA</u> <b>Date:</b> <u>8/1/19</u>

**Assignee**

ConocoPhillips Company hereby accepts assignment of the above referenced patent application.

**Name:** ConocoPhillips Company

**Mailing Address:**

925 N. Eldridge Parkway  
Houston, Texas  
P. O. Box 4783  
Houston, TX 77210  
United States of America

Patent [Attorney/Agent] and Attorney-in-Fact  
ConocoPhillips Company

Assignment of Rights, Title and Interest in Invention  
and Declaration of Invention

Docket No.:  
42478US02

Notarization  
Executed this 1<sup>st</sup> day of August in the year 2019.

At Houston (city) Texas (State)

State of Texas

County of Harris

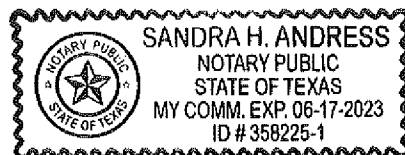
Before me personally appeared

GE JIN  
Baishan Roy

who acknowledged the foregoing instrument to be a free act and deed and also represented that  
he/she is authorized to execute the same this 1<sup>st</sup> day of August in the year 2019.

Sandra H. Address  
(Notary Public)

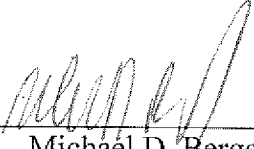
[SEAL]



My Commission Expires:

June 17, 2023

ConocoPhillips Company hereby accepts this Assignment in its entirety on this 1<sup>st</sup> day of August, 2019.

  
 Michael D. Berger  
 Lead Patent Agent and  
 Attorney-in-Fact

Notarization:

Executed this 1<sup>st</sup> day of August in the year 2019.

At Houston, Texas

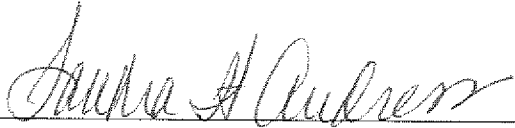
State of Texas

County of Harris

Before me personally appeared

Michael D. Berger

who acknowledged the foregoing instrument to be a free act and deed and also represented that he is authorized to execute the same this 1<sup>st</sup> day of August in the year 2019.

  
 (Notary Public)

[SEAL]

