

## PATENT ASSIGNMENT COVER SHEET

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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>
GANESH C. THAKUR	10/02/2019
PEILA CHEN	10/02/2019
SRIRAM BALASUBRAMANIAN	10/02/2019
SUSHANTA BOSE	10/02/2019
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<b>Postal Code:</b>	77004
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	17281645
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<b>NAME OF SUBMITTER:</b>	GREGORY L. MAAG
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<b>DATE SIGNED:</b>	03/31/2021
<b>Total Attachments: 5</b>	
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## ASSIGNMENT

FOR GOOD AND VALUABLE CONSIDERATION to us by **UNIVERSITY OF HOUSTON SYSTEM**, and other valuable consideration, the receipt and sufficiency of which are hereby acknowledged, we, **Ganesh C. THAKUR, Peila CHEN, Sriram BALASUBRAMANIAN,** and **Sushanta BOSE** (“ASSIGNORS”), having made an invention in “**OPTIMIZATION TECHNIQUE FOR CO2-EOR MISCIBILITY MANAGEMENT IN AN OIL RESERVOIR**” (“INVENTION”), while in the employ either as an employee or consultant of **UNIVERSITY OF HOUSTON SYSTEM**, a university organized and existing under the laws of the State of Texas, doing business at 4800 Calhoun Road, Houston, Texas 77004 (sometimes hereinafter called “ASSIGNEE”), do hereby ASSIGN, SELL, and CONVEY to **UNIVERSITY OF HOUSTON SYSTEM**, its successors, and assigns, the entire right, title, and interest throughout the world in and to:

1. Said invention in “**OPTIMIZATION TECHNIQUE FOR CO2-EOR MISCIBILITY MANAGEMENT IN AN OIL RESERVOIR;**”
2. United States of America provisional patent application on said invention, filed as U.S. Patent Application No. 62/740,379 on October 2, 2018 (Attorney’s File No. 2483-12000), and entitled “**OPTIMIZATION TECHNIQUE FOR CO2-EOR MISCIBILITY MANAGEMENT IN AN OIL RESERVOIR;**”
3. Patent Cooperation Treaty international patent application on said invention, filed as Serial No. PCT/US2019/054100 on October 1, 2019 (Attorney’s File No. 2483-12001), and entitled “**OPTIMIZATION TECHNIQUE FOR CO2-EOR MISCIBILITY MANAGEMENT IN AN OIL RESERVOIR;**”
4. All applications for patent or like protection on the INVENTION that have now been or may in the future be made by us or our legal representatives, including any continuation, continuation-in-part and any other utility applications that may be based on the INVENTION, whether in the United States of America or any other place anywhere in the world;
5. All patents and like protection that have now been or may in the future be granted on the INVENTION to us or our legal representatives, whether in the United States of America or in any other country or place anywhere in the world;
6. All substitutions for and divisions, continuations, continuations-in-part, renewals, reissues, extensions, and the like of the applications and patents and like grants, including without limitation, those obtained or permissible under

past, present, and future laws and statutes;

7. All rights of action on account of past, present, and future unauthorized use of the INVENTION and for infringement of the patents and like protection;
8. The right in ASSIGNEE to file in its name applications for patents and like protection for the INVENTION in any country or countries foreign to the United States; and
9. All international rights of priority associated with the INVENTION, applications, patents, and like protection; and

we covenant that we, and our heirs, legal representatives, assigns, administrators, and executors, will, at the expense of ASSIGNEE, its successors, and assigns, execute all papers and perform such other acts as may be reasonably necessary to give ASSIGNEE, its successors, and assigns, the full benefit of this Assignment. Further, ASSIGNOR warrants that the INVENTION is not encumbered by another assignment or obligation of assignment to a third-party and that ASSIGNOR has the full ability and authority to assign and encumber the INVENTION.

\*\*\*\*\*

EXECUTED on the date indicated below, opposite my signature.

Signature:

Ganesh C. Thakur  
Ganesh C. Thakur

Date:

10/2/2019

Witnessed by:

Shweta Thakur  
Signature

Date:

10/2/2019

Shweta Thakur  
Printed Name of Witness

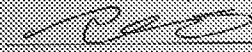
PATENT

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\*\*\*\*\*

EXECUTED on the date indicated below, opposite my signature.

Signature:



Peilin Chen

Date:

10/02/2019

Witnessed by



Signature

Date:

OCT - 02 - 2019




Printed Name of Witness

\*\*\*\*\*

EXECUTED on the date indicated below, opposite my signature.

Signature:   
Sriram Balasubramanian

Date: 02-OCT-2019

Witnessed by:   
Signature  
Jose B. Coronado.

Date: 02-OCT-2019

Printed Name of Witness

\*\*\*\*\*

EXECUTED on the date indicated below, opposite my signature.

Signature: Sushanta Bose Date: Oct 2<sup>nd</sup>, 2019  
Sushanta Bose

Witnessed by: Rituparna Basu Date: 10-2-19  
Signature

RITUPARNA BASU  
Printed Name of Witness