

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT6309681

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
JIAN LI	07/16/2018
JAMES M. PRICE	07/16/2018
BIN DAI	07/16/2018
CHRISTOPHER MICHAEL JONES	07/17/2018
DANIEL STARK	07/17/2018
JOHN LAURETO MAIDA JR.	07/16/2018
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	HALLIBURTON ENERGY SERVICES, INC.
<b>Street Address:</b>	3000 N. SAM HOUSTON PARKWAY E.
<b>City:</b>	HOUSTON
<b>State/Country:</b>	TEXAS
<b>Postal Code:</b>	77032-3219
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
Application Number:	16346466
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	
<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>	7037125390
<b>Email:</b>	mguidry@mcguirewoods.com
<b>Correspondent Name:</b>	MELISSA GUIDRY
<b>Address Line 1:</b>	1750 TYSONS BLVD
<b>Address Line 2:</b>	SUITE 1800
<b>Address Line 4:</b>	TYSONS, VIRGINIA 22102
<b>ATTORNEY DOCKET NUMBER:</b>	2069464-0408PTUS
<b>NAME OF SUBMITTER:</b>	MELISSA GUIDRY
<b>SIGNATURE:</b>	/Melissa Guidry/
<b>DATE SIGNED:</b>	09/21/2020

**Total Attachments: 7**

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## ASSIGNMENT

WHEREAS, We, Jian LI, having an address of 5509 Newcastle Street, Bellaire, Texas 77401, USA; James M. PRICE, having an address of 5 Gambrel Oak Pl, Woodlands, Texas 77380, USA; Bin DAI, having an address of 26126 W Lovegrass Lane, Spring, Texas 77386, USA; Christopher Michael JONES, having an address of 22947 Heathercroft Dr., Katy, Texas 77084, USA; Daniel STARK, having an address of 8423 Hearth Dr., Apt. 3, Houston, Texas 77054, USA; John Laureto MAIDA, Jr., having an address of 10420 Memorial Dr., Houston, Texas 77024, USA, (hereinafter referred to as "Assignors"), have invented certain new and useful improvements in a **"Thin Film Multivariate Optical Element and Detector Combinations, Thin Film Optical Detectors, and Downhole Optical Computing Systems"**, shown and described in an International Patent Application filed under the Patent Cooperation Treaty on July 13, 2018, and assigned International Application No. PCT/US2018/042118 (the "Application"); and,

WHEREAS, Halliburton Energy Services, Inc., a Delaware corporation, having a correspondence address at 3000 N. Sam Houston Parkway E., Houston, Texas 77032, US, ("Halliburton"), is desirous of acquiring our entire right, title and interest in and to said inventions, Application and any patents which may issue thereon;

NOW, THEREFORE, be it known by all whom it may concern that for and in consideration of One Dollar (\$1.00), the receipt of which is hereby acknowledged, and other good and valuable consideration, Assignors agree to assign and hereby assign to Halliburton for the territory of the United States of America and the entire world our entire right, title and interest in and to said inventions and Application, and in and to any and all patent applications in the United States and all countries foreign to the United States which may claim priority to said Application or which may be directed to said inventions, said patent applications including without limitation any and all provisionals, non-provisionals, divisionals, continuations, continuations-in-part, utility models, industrial models, and designs, and in and to any and all patents in the United States and all countries foreign to the United States which may be granted therefore and thereon, and in and to any reissues, reexaminations, and extensions of said patents. Assignors hereby transfer and convey to Halliburton any right to recover for past and future infringement of the patents assigned herein.

Assignors HEREBY covenant and agree that Assignors will at any time, upon the request and at the expense of Halliburton, execute and deliver any and all papers and do all lawful acts that may be necessary or desirable to perfect the title to said inventions, applications and patents, and Assignors authorize the Commissioner of Patents and Trademarks, or any other patent-issuing authority in the United States or any other country, to issue said patents to Halliburton.

IN TESTIMONY WHEREOF, I execute this assignment on the date set forth below my name.

Jian Li

THE STATE OF:  
COUNTY OF:

Texas  
Harris

§  
§

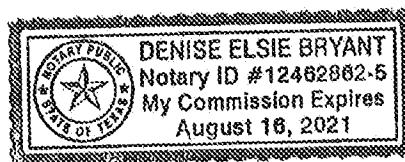
Before me personally appeared the above-identified individual and acknowledged that the foregoing assignment to be his voluntary act and deed on the 16 day of July, 2018.

Notary Public:

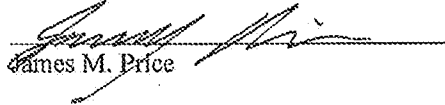
State of:

My commission expires:

Denise E Bryant  
Texas  
08-16-2021



IN TESTIMONY WHEREOF, I execute this assignment on the date set forth below my name.

  
James M. Price

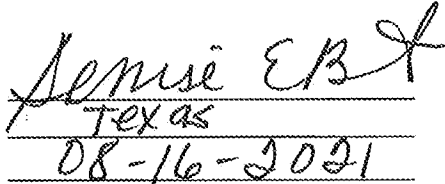
THE STATE OF: Texas §  
COUNTY OF: Harris §

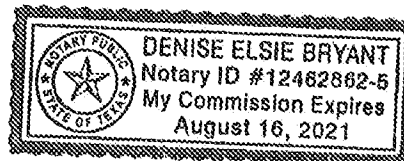
Before me personally appeared the above-identified individual and acknowledged that the foregoing assignment to be his voluntary act and deed on the 16 day of July, 2018.

Notary Public:

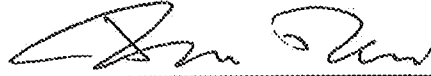
State of:

My commission expires:

  
Texas  
08-16-2021



IN TESTIMONY WHEREOF, I execute this assignment on the date set forth below my name.

  
Bin Dai

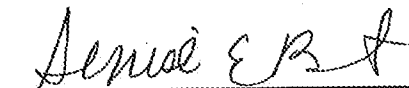
THE STATE OF: Texas §  
COUNTY OF: Harris §

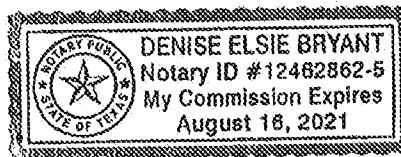
Before me personally appeared the above-identified individual and acknowledged that the foregoing assignment to be his voluntary act and deed on the 16 day of July, 2018.

Notary Public:

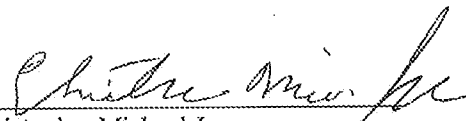
State of:

My commission expires:

  
Texas  
08-16-2021



IN TESTIMONY WHEREOF, I execute this assignment on the date set forth below my name.

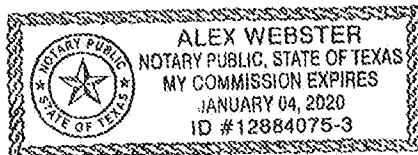
  
Christopher Michael Jones

THE STATE OF:  
COUNTY OF:

Texas.  
Harris

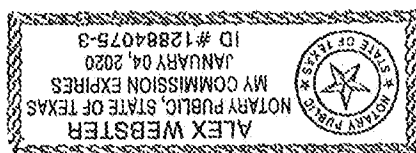
§  
§

Before me personally appeared the above-identified individual and acknowledged that the foregoing assignment to be his voluntary act and deed on the 10<sup>th</sup> day of July, 2018.



AW  
Notary Public:  
State of:  
My commission expires:

Alex Webster  
TX  
01/04/2020



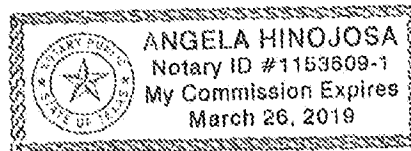
IN TESTIMONY WHEREOF, I execute this assignment on the date set forth below my name.

Daniel Stark  
Daniel Stark

THE STATE OF: Texas §  
COUNTY OF: Harris §

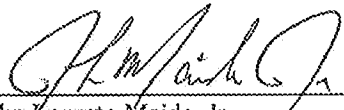
Before me personally appeared the above-identified individual and acknowledged that the foregoing assignment to be his voluntary act and deed on the 17 day of July, 2018.

Notary Public: Angela Hinojosa  
State of: Texas  
My commission expires: 3-26-2019



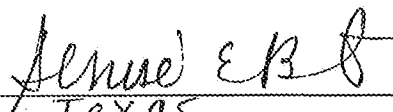


IN TESTIMONY WHEREOF, I execute this assignment on the date set forth below my name.

  
\_\_\_\_\_  
John Laureto Maida, Jr.

THE STATE OF: Texas §  
COUNTY OF: Harris §

Before me personally appeared the above-identified individual and acknowledged that the foregoing assignment to be his voluntary act and deed on the 16 day of July, 2018.

Notary Public:   
State of: Texas  
My commission expires: 08-16-2021

