

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT2733869

SUBMISSION TYPE:	NEW ASSIGNMENT												
NATURE OF CONVEYANCE:	ASSIGNMENT												
CONVEYING PARTY DATA													
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>WEI ZHANG</td> <td>07/18/2013</td> </tr> <tr> <td>ROBERT ATKINSON</td> <td>03/13/2013</td> </tr> <tr> <td>MICHAEL PELLETIER</td> <td>03/14/2013</td> </tr> <tr> <td>WILLIAM SOLTSMANN</td> <td>07/11/2013</td> </tr> <tr> <td>CHRISTOPHER MICHAEL JONES</td> <td>04/02/2013</td> </tr> </tbody> </table>		Name	Execution Date	WEI ZHANG	07/18/2013	ROBERT ATKINSON	03/13/2013	MICHAEL PELLETIER	03/14/2013	WILLIAM SOLTSMANN	07/11/2013	CHRISTOPHER MICHAEL JONES	04/02/2013
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CHRISTOPHER MICHAEL JONES	04/02/2013												
RECEIVING PARTY DATA													
<table border="1"> <tr> <td>Name:</td> <td>HALLIBURTON ENERGY SERVICES, INC.</td> </tr> <tr> <td>Street Address:</td> <td>10200 BELLAIRE BOULEVARD</td> </tr> <tr> <td>City:</td> <td>HOUSTON</td> </tr> <tr> <td>State/Country:</td> <td>TEXAS</td> </tr> <tr> <td>Postal Code:</td> <td>77072</td> </tr> </table>		Name:	HALLIBURTON ENERGY SERVICES, INC.	Street Address:	10200 BELLAIRE BOULEVARD	City:	HOUSTON	State/Country:	TEXAS	Postal Code:	77072		
Name:	HALLIBURTON ENERGY SERVICES, INC.												
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PROPERTY NUMBERS Total: 1													
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>14233430</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	14233430								
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Application Number:	14233430												
CORRESPONDENCE DATA													
Fax Number:	(202)756-8087												
Email:	mweipdocket@mwe.com												
<i>Correspondence will be sent via US Mail when the email attempt is unsuccessful.</i>													
Correspondent Name:	IONA N. KAISER												
Address Line 1:	MCDERMOTT WILL & EMERY LLP												
Address Line 2:	500 NORTH CAPITOL STREET N.W.												
Address Line 4:	WASHINGTON, DISTRICT OF COLUMBIA 20001												
ATTORNEY DOCKET NUMBER:	087638-0405												
NAME OF SUBMITTER:	DEBBIE ALLEN												

Signature:	/Debbie Allen/
Date:	02/20/2014
<p>Total Attachments: 13</p> <p>source=0876380405DeclAssign#page1.tif</p> <p>source=0876380405DeclAssign#page2.tif</p> <p>source=0876380405DeclAssign#page3.tif</p> <p>source=0876380405DeclAssign#page4.tif</p> <p>source=0876380405DeclAssign#page5.tif</p> <p>source=0876380405DeclAssign#page6.tif</p> <p>source=0876380405DeclAssign#page7.tif</p> <p>source=0876380405DeclAssign#page8.tif</p> <p>source=0876380405DeclAssign#page9.tif</p> <p>source=0876380405DeclAssign#page10.tif</p> <p>source=0876380405DeclAssign#page11.tif</p> <p>source=0876380405DeclAssign#page12.tif</p> <p>source=0876380405DeclAssign#page13.tif</p>	

**RECORDATION FORM COVER SHEET**  
**PATENTS ONLY**

To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below.

**1. Name of conveying party(ies)**

Wei Zhang

Additional name(s) of conveying party(ies) attached? ☒ Yes ☐ No

**3. Nature of conveyance/Execution Date(s):**

Execution Date(s) 7/18/13, 3/13/13, 3/14/13, 7/11/13 and 4/2/13, respectively

- ☒ Assignment ☐ Merger  
☐ Security Agreement ☐ Change of Name  
☐ Joint Research Agreement  
☐ Government Interest Assignment  
☐ Executive Order 9424, Confirmatory License  
☐ Other \_\_\_\_\_

**2. Name and address of receiving party(ies)**

Name: Halliburton Energy Services, Inc.

Internal Address: \_\_\_\_\_

Street Address: 10200 Bellaire Boulevard

City: Houston

State: TX

Country: US Zip: 77072

Additional name(s) & address(es) attached? ☐ Yes ☒ No

**4. Application or patent number(s):**

☐ This document serves as an Oath/Declaration (37 CFR 1.63).

A. Patent Application No.(s)

B. Patent No.(s)

14/233,430

Additional numbers attached? ☐ Yes ☒ No

**5. Name and address to whom correspondence concerning document should be mailed:**

Name: Iona N. Kaiser

Internal Address: McDermott Will & Emery LLP

Street Address: 500 North Capitol Street, N.W.

City: Washington

State: DC Zip: 20001

Phone Number: \_\_\_\_\_

Docket Number: 087638-0405

Email Address: mweipdocket@mwe.com

**6. Total number of applications and patents involved: 1**

**7. Total fee (37 CFR 1.21(h) & 3.41) \$ 0**

- ☐ Authorized to be charged to deposit account  
☐ Enclosed  
☐ None required (government interest not affecting title)

**8. Payment Information**

Deposit Account Number 500417

Authorized User Name Iona N. Kaiser

**9. Signature: /Iona N. Kaiser/**

2014-02-20

Signature

Date

Iona N. Kaiser

Name of Person Signing

Total number of pages including cover sheet, attachments, and documents:

**13**

Documents to be recorded (including cover sheet) should be faxed to (571) 273-0140, or mailed to:  
Mail Stop Assignment Recordation Services, Director of the USPTO, P.O.Box 1450, Alexandria, V.A. 22313-1450

Item 1. – Additional Conveying Parties

Robert Atkinson

Michael Pelletier

William Soltmann

Christopher Jones

**DECLARATION AND ASSIGNMENT**

As the below named inventor, I hereby declare that:

This declaration is directed to:

- ☐ The attached application to be filed as a United States application or PCT international application, or
- ☒ United States application or PCT international application number PCT/US2013/33815 filed on March 26, 2013; and,

entitled "PACKAGING SYSTEMS AND METHODS FOR OPTICAL LIGHT PIPES."

Regarding that application, I declare the following:

- 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 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.
- I have reviewed and understand the subject matter of the above-identified application, including the claims.
- I am aware of and acknowledge my duty to disclose to the United States Patent and Trademark Office all information known to me to be material to patentability under 37 CFR 1.56; including, for continuation-in-part applications, material information that became available between the filing of the prior application and the filing of the continuation-in-part application.

Moreover, Whereas, HALLIBURTON ENERGY SERVICES, INC., a Delaware Corporation, having a place of business at 10200 Bellaire Boulevard, Houston, TX 77072 (hereinafter "Assignee") is desirous of acquiring an interest therein;

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, We, by these presents do sell, assign and transfer and convey unto Assignee, its successors and assigns, the full and exclusive right, for the United States of America and its territorial possessions and for any and all foreign countries, in and to the said invention, described in the Patent Application identified above, and any divisional, continuing or reissue application based on the present application preparatory to obtaining Letters Patent

of the United States therefore; said invention, application and any and all Letters Patent issuing there from to be held and enjoyed by Assignee, for its own use and benefit, and for its legal representatives, successors and assigns, to the full end of the term for which said Letters Patent may be granted, as fully and entirely as the same would have been held by me and had this assignment and sale not been made.

And I do further agree to sign all papers, make all rightful oaths and do all requisite acts for the filing of any disclaimer or for the filing and assignment of any divisional, continuing or reissue application or applications for patent based on the present application, as well as for any other U.S. or foreign application for patent which relates to the said invention.

And I do further agree to communicate to Assignee, its successors, assign or other legal representatives, such facts relating to the invention disclosed in the present application or Letters Patent issuing thereon as may be known to me, and to testify as to such facts in any interference or other litigation.

Executed this 18<sup>th</sup> day of July, 2013

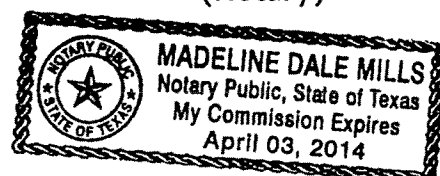
Wei Zhang  
WEI ZHANG

STATE OF )  
 )  
COUNTY OF )

Before me personally appeared said WEI ZHANG and acknowledged the foregoing instrument to be a free act and deed this 18<sup>th</sup> day of July, 2013.

Seal

Madeline Dale Mills  
(Notary)



of the United States therefore; said invention, application and any and all Letters Patent issuing there from to be held and enjoyed by Assignee, for its own use and benefit, and for its legal representatives, successors and assigns, to the full end of the term for which said Letters Patent may be granted, as fully and entirely as the same would have been held by me and had this assignment and sale not been made.

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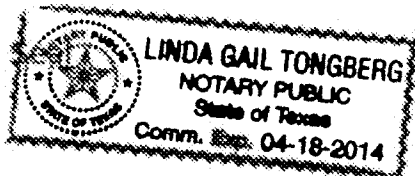
Executed this 13<sup>th</sup> day of March, 2013

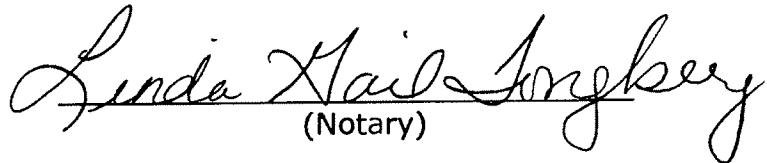


ROBERT ATKINSON

STATE OF Texas )  
 )  
COUNTY OF Harris )

Before me personally appeared said ROBERT ATKINSON and acknowledged the foregoing instrument to be a free act and deed this 13<sup>th</sup> day of March, 2013.




  
(Notary)

of the United States therefore; said invention, application and any and all Letters Patent issuing there from to be held and enjoyed by Assignee, for its own use and benefit, and for its legal representatives, successors and assigns, to the full end of the term for which said Letters Patent may be granted, as fully and entirely as the same would have been held by me and had this assignment and sale not been made.

And I do further agree to sign all papers, make all rightful oaths and do all requisite acts for the filing of any disclaimer or for the filing and assignment of any divisional, continuing or reissue application or applications for patent based on the present application, as well as for any other U.S. or foreign application for patent which relates to the said invention.

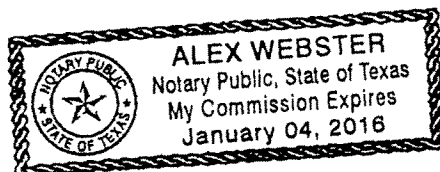
And I do further agree to communicate to Assignee, its successors, assign or other legal representatives, such facts relating to the invention disclosed in the present application or Letters Patent issuing thereon as may be known to me, and to testify as to such facts in any interference or other litigation.


Executed this 14<sup>th</sup> day of March, 2013  
  
 MICHAEL PELLETIER

STATE OF Texas )  
 )  
 COUNTY OF Harris )

Before me personally appeared said MICHAEL PELLETIER and acknowledged the foregoing instrument to be a free act and deed this 14<sup>th</sup> day of March, 2013.

Seal



  
 (Notary)



of the United States therefore; said invention, application and any and all Letters Patent issuing there from to be held and enjoyed by Assignee, for its own use and benefit, and for its legal representatives, successors and assigns, to the full end of the term for which said Letters Patent may be granted, as fully and entirely as the same would have been held by me and had this assignment and sale not been made.

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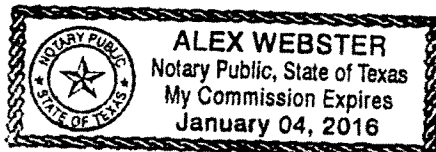
Executed this 11<sup>th</sup> day of July, 2013

William Soltmann  
WILLIAM SOLTSMANN

STATE OF Texas )  
COUNTY OF Montgomery )

Before me personally appeared said WILLIAM SOLTSMANN and acknowledged the foregoing instrument to be a free act and deed this 11<sup>th</sup> day of July, 2013.

Seal



Alex Webster  
(Notary)

of the United States therefore; said invention, application and any and all Letters Patent issuing there from to be held and enjoyed by Assignee, for its own use and benefit, and for its legal representatives, successors and assigns, to the full end of the term for which said Letters Patent may be granted, as fully and entirely as the same would have been held by me and had this assignment and sale not been made.

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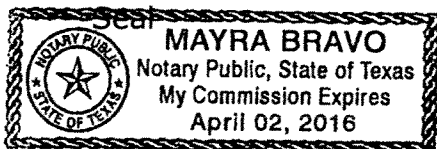
And I do further agree to communicate to Assignee, its successors, assign or other legal representatives, such facts relating to the invention disclosed in the present application or Letters Patent issuing thereon as may be known to me, and to testify as to such facts in any interference or other litigation.

Executed this 2<sup>nd</sup> day of April, 2013

Christopher Michael Jones  
CHRISTOPHER MICHAEL JONES

STATE OF Texas )  
COUNTY OF Harris )

Before me personally appeared said CHRISTOPHER MICHAEL JONES and acknowledged the foregoing instrument to be a free act and deed this 2<sup>nd</sup> day of April, 2013.



Mayra Bravo  
(Notary)



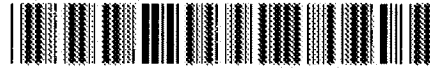
## UNITED STATES PATENT AND TRADEMARK OFFICE

UNDER SECRETARY OF COMMERCE FOR INTELLECTUAL PROPERTY AND  
DIRECTOR OF THE UNITED STATES PATENT AND TRADEMARK OFFICE

February 19, 2014

PTAS

IONA N. KAISER  
MCDERMOTT WILL & EMERY LLP  
500 NORTH CAPITOL STREET, N. W.  
WASHINGTON, DC 20001



700514325

### United States Patent and Trademark Office Notice of Non-Recordation of an Assignment Document

The enclosed document has been examined and found non-recordable by the Assignment Recordation Branch of the U.S. Patent and Trademark Office. The reason(s) for non-recordation are stated below:

1. The cover sheet submitted for recording does not adequately identify the property number(s). If the property is a pending application, the application number and series code or the serial number is required. If the property is a registration, the registration number is required.
2. A recording fee was not submitted with this document. Authorization to charge was not granted.

Documents being resubmitted for recordation must reflect the corrected information to be recorded, the Document ID number referenced above and all pages from this submitted document. The original date of filing of this assignment document will be maintained if resubmitted with the appropriate correction(s) by **Monday, April 21, 2014**, as outlined under 37 CFR 3.51. The resubmitted document must include a stamp with the official date of receipt under 37 CFR 3. Applicants may use the certified procedures under 37 CFR 1.8 or 1.10 for resubmission of the returned papers if they desire to have the benefit of the date of deposit in the United States Postal Service.

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MARGARET LASALLE  
ASSIGNMENT RECORDATION BRANCH  
PUBLIC RECORDS DIVISION

Form PTO-1595 (Rev. 06-12)  
OMB No. 0651-0027 (exp. 04/30/2015)

U.S. DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office

# RECORDATION FORM COVER SHEET

## PATENTS ONLY

To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below.

### 1. Name of conveying party(ies)

Wei Wang

Additional name(s) of conveying party(ies) attached? ☒ Yes ☐ No

### 3. Nature of conveyance/Execution Date(s):

Execution Date(s) 7/18/13, 8/13/13, 3/14/13, 7/15/13 and 4/2/13, respectively

- ☒ Assignment ☐ Merger  
☐ Security Agreement ☐ Change of Name  
☐ Joint Research Agreement  
☐ Government Interest Assignment  
☐ Executive Order 9424, Confirmatory License  
☐ Other \_\_\_\_\_

### 2. Name and address of receiving party(ies)

Name: Halliburton Energy Services, Inc.

Internal Address: \_\_\_\_\_

Street Address: 10200 Bellaire Boulevard

City: Houston

State: TX

Country: US Zip: 77072

Additional name(s) & address(es) attached? ☐ Yes ☒ No

### 4. Application or patent number(s):

☐ This document serves as an Oath/Declaration (37 CFR 1.63).

A. Patent Application No.(s)

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

### 5. Name and address to whom correspondence concerning document should be mailed:

Name: Iona N. Kaiser

Internal Address: McDermott Will & Emery LLP

Street Address: 500 North Capitol Street, N.W.

City: Washington

State: DC Zip: 20001

Phone Number: \_\_\_\_\_

Docket Number: 087638-0405

Email Address: mweipdocket@mwe.com

### 6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 1.21(h) & 3.41) \$0

- ☐ Authorized to be charged to deposit account  
☐ Enclosed  
☐ None required (government interest not affecting title)

### 8. Payment Information

Deposit Account Number 500417

Authorized User Name Iona N. Kaiser

### 9. Signature: /Iona N. Kaiser/

2014-02-06

Signature

Date

Iona N. Kaiser

Name of Person Signing

Total number of pages including cover sheet, attachments, and documents: 7

Documents to be recorded (including cover sheet) should be faxed to (571) 273-0146, or mailed to:  
Mail Stop Assignment Recordation Services, Director of the USPTO, P.O. Box 1458, Alexandria, V.A. 22313-1458



**UNITED STATES PATENT AND TRADEMARK OFFICE**

UNDER SECRETARY OF COMMERCE FOR INTELLECTUAL PROPERTY AND  
DIRECTOR OF THE UNITED STATES PATENT AND TRADEMARK OFFICE

February 04, 2014

PTAS

KAISER, IONA N.  
MCDERMOTT WILL & EMERY LLP  
500 NORTH CAPITOL STREET, N.W.  
WASHINGTON, DC 20001

**103665632**

United States Patent and Trademark Office  
Notice of Non-Recordation of an Assignment Document

The enclosed document has been examined and found non-recordable by the Assignment Recordation Branch of the U.S. Patent and Trademark Office. The reason(s) for non-recordation are stated below:

1. The cover sheet submitted for recording is not acceptable. The name of the conveying party(ies) must be indicated on the cover sheet and must be complete (i.e. Last Name, First Name MI).

Documents being resubmitted for recordation must reflect the corrected information to be recorded, the Document ID number referenced above and all pages from this submitted document. The original date of filing of this assignment document will be maintained if resubmitted with the appropriate correction(s) within 30 days from the date of this notice as outlined under 37 CFR 3.51. The resubmitted document must include a stamp with the official date of receipt under 37 CFR 3. Applicants may use the certified procedures under 37 CFR 1.8 or 1.10 for resubmission of the returned papers if they desire to have the benefit of the date of deposit in the United States Postal Service.

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MAURICE CARTER  
ASSIGNMENT RECORDATION BRANCH  
PUBLIC RECORDS DIVISION

01/24/2014

U.S. DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office



RE

103665632

To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below.

**1. Name of conveying party(ies)**

Wei Wang, Robert Atkinson, Michael Pelletie

Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

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☐ Enclosed  
☐ None required (government interest not affecting title)

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Deposit Account Number 500417  
01/26/2014 RNDUTEN: 00000010 500417 1423343

Authorized User Name Iona N. Kaiser

**9. Signature: /Iona N. Kaiser/**

2014-01-17

Signature

Date

Iona N. Kaiser

Name of Person Signing

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Signature

Date

Iona N. Kaiser

Name of Person Signing

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