

RECORDATION FORM COVER SHEET
PATENTS ONLY

Atty Ref/Docket No.: 1880.275WO1

Patent and Trademark Office

To the Director of the U.S. Patent and Trademark Office: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

Paul Cooper, Kristopher V Sherrill, Ricardo Ortiz, Daniel Flores and Batakrishna Mandal

Additional name(s) of conveying party(ies) attached?

☐ Yes ☒ No

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

Name: Halliburton Energy Services, Inc.Street Address: 10200 Bellaire BlvdCity: Houston State: TX Zip: 77072Additional name(s) & address(es) attached? ☐ Yes ☒ No

3. Nature of conveyance:

☒ Assignment ☐ Merger☐ Security Agreement ☐ Change of Name☐ OtherExecution Date: August 31, 2009, August 14, 2009,
August 14, 2009, February 15, 2010, August 18, 2009

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

If this document is being filed together with a new application, the execution date of the application is:

A. Patent Application No.(s)

B. Patent No.(s)

Serial No. PCT/US2009/50859, filed July 16, 2009

Additional numbers attached? ☐ Yes ☒ No

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

Name: Mark V. Muller

Address:

Schwegman, Lundberg & Woessner, P.A.
P.O. Box 2938
Minneapolis, MN 55402-09386. Total number of applications and patents involved: 17. Total fee (37 CFR 3.41): \$ 40.00☐ Enclosed☒ Authorized to be charged to deposit account
19-0743

8. Please charge any additional fees or credit any over payments to our Deposit Account No.: 19-0743


DO NOT USE THIS SPACE

9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Mark V. Muller/Reg. No. 37,509

Name of Person Signing



Signature

FEBRUARY 19, 2010

Date

Total number of pages including cover sheet: 16

Mail documents to be recorded with required cover sheet information to:

Commissioner of Patents and Trademarks
Mail Stop Assignment Recordation Services
P.O. Box 1450
Alexandria, VA 22313-1450

700429885

PATENT
REEL: 023968 FRAME: 0943

CH \$40.00 190743 US0950859

ASSIGNMENT

804 Robin St., Houston TX 77019

PAC

WHEREAS, We, Paul Cooper, residing at ~~2222 Smith St #223, Houston, TX 77002~~, and Kristopher V Sherrill, residing at 12730 Smokey Mountain Court, Humble, TX 77346, and Ricardo Ortiz, residing at 1116 Smallwood Lane, Texas, Houston, TX 77023, and Daniel Flores, residing at 3000 N. Sam Houston Parkway E., Bldg. J, Room 3R41, Houston, TX 77032, and Batakrisna Mandal, residing at 4222 Bluewater Dr., Missouri City, TX 77459, made certain new and useful inventions and improvements for which we filed an application for Letters Patent of the United States on July 16, 2009, which application was assigned U.S. patent application serial number PCT/US09/50859, and is entitled ACOUSTIC VELOCITY MEASUREMENTS USING TILTED TRANSDUCERS;

AND WHEREAS, Halliburton Energy Services, Inc., a corporation organized and existing under and by virtue of the laws of the State of Delaware, and having an office and place of business at 10200 Bellaire Blvd, Houston, TX 77072 (hereinafter "Assignee"), is desirous of acquiring the entire right, priority right, title and interest in and to said inventions, improvements and application and in and to the Letters Patent to be obtained therefore;

Docket No: I880.275WO1
Client Ref. No. 2006-IP-021556/E-Billing # 2006-IP-021556
Serial Number: PCT/US09/50859
Filing Date: July 16, 2009
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NOW, THEREFORE, to all whom it may concern, be it known that for good and valuable consideration, the receipt and sufficiency whereof is hereby acknowledged, we have sold, assigned, and transferred, and by these presents do sell, assign and transfer unto said Assignee, its successors or assigns, the entire right, title and interest for all countries in and to all inventions and improvements disclosed in the aforesaid application, and in and to the said application, all divisions, continuations, continuations-in-part, or renewals thereof, all Letters Patent which may be granted there from, and all reissues or extensions of such patents, and in and to any and all applications which have been or shall be filed in any foreign countries for Letters Patent on the said inventions and improvements, including an assignment of all rights under the provisions of the International Convention, and all Letters Patent of foreign countries which may be granted there from; and we do hereby authorize and request the Commissioner of Patents and Trademarks to issue any and all United States Letters Patent for the aforesaid inventions and improvements to the said Assignee as the assignee of the entire right, title and interest in and to the same, for the use of the said Assignee, its successors and assigns.

AND, for the consideration aforesaid, we do hereby agree that we and our executors and legal representatives will make, execute and deliver any and all other instruments in writing including any and all further application papers, affidavits, assignments and other documents, and will communicate to said Assignee, its successors and representatives all facts known to us relating to said improvements and the history thereof and will testify in all legal proceedings and generally do all things which may be necessary or desirable more effectually to secure to and vest in said Assignee, its successors or assigns the entire right, title and interest in and to the said improvements, inventions, applications, Letters Patent, rights, titles, benefits, privileges and advantages hereby sold, assigned and conveyed, or intended so to be.

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AND, furthermore, we covenant and agree with said Assignee, its successors and assigns, that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by us and that full right to convey the same as herein expressed is possessed by us.

Docket No: 1880,275W01
Client Ref. No. 2006-IP-021556/B-Billing # 2006-IP-021556
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IN TESTIMONY WHEREOF, I have hereunto set my hand this 31st day of August, 2009.

P. A. Cooper

Paul Cooper

STATE OF TEXAS)
)ss
COUNTY OF HARRIS)

On this 31st day of August, 2009 before me personally appeared Paul Cooper, to me known and known to me to be the pers on described in and who executed the foregoing instrument, and he/she duly acknowledged to me that he/she executed the same for the uses and purposes therein set forth.

[SEAL]



Dawn Megie
Notary Public

Docket No: 1880.275WO1
Client Ref. No. 2006-IP-021556/E-Billing # 2006-IP-021556
Serial Number: PCI/US09/50859
Filing Date: July 16, 2009
Title: ACOUSTIC VELOCITY MEASUREMENTS USING TILTED TRANSDUCERS
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IN TESTIMONY WHEREOF, I have hereunto set my hand this 14th day of
August, 2009.

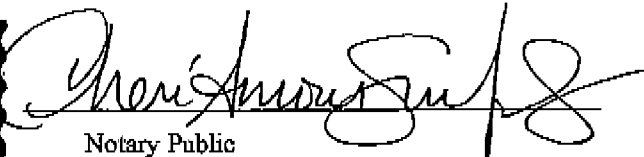


Kristopher V Sherrill

STATE OF Texas)
)ss
COUNTY OF Harris)

On this 14th day of August, 2009 before me personally appeared Kristopher V Sherrill, to me known and known to me to be the person described in and who executed the foregoing instrument, and he/she duly acknowledged to me that he/she executed the same for the uses and purposes therein set forth.

[SEAL]



Notary Public

Docket No: 1880.275WO1
Client Ref. No. 2006-IP-021556/E-Billing # 2006-IP-021556
Serial Number: PCT/US09/50859
Filing Date: July 16, 2009
Title: ACOUSTIC VELOCITY MEASUREMENTS USING TILTED TRANSDUCERS
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IN TESTIMONY WHEREOF, I have hereunto set my hand this 14 day of
August, 2009.

Ricardo Ortiz
Ricardo Ortiz

STATE OF Texas)
)ss
COUNTY OF Harris)

On this 14th day of August, 2009 before me personally appeared Ricardo Ortiz, to me known and known to me to be the person described in and who executed the foregoing instrument, and he/she duly acknowledged to me that he/she executed the same for the uses and purposes therein set forth.

[SEAL]



Chen Amour Smith James
Notary Public

Docket No: 1880.275WO1
Client Ref. No. 2006-IP-021556/E-Billing # 2006-IP-021556
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IN TESTIMONY WHEREOF, I have hereunto set my hand this ____ day of
_____, 20____.

Daniel Flores

STATE OF _____)
)ss
COUNTY OF _____)

On this _____ day of _____, 20____ before me personally appeared Daniel Flores, to me known and known to me to be the person described in and who executed the foregoing instrument, and he/she duly acknowledged to me that he/she executed the same for the uses and purposes therein set forth.

[SEAL]

Notary Public

Docket No: 1880.275W01
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Serial Number: PCT/US09/50859
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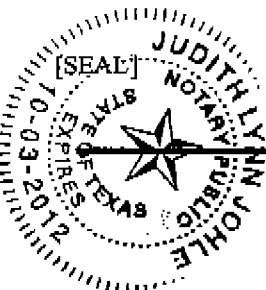
IN TESTIMONY WHEREOF, I have hereunto set my hand this 18 day of
August, 2009.

Batakrishna Mandal

Batakrishna Mandal

STATE OF Texas)
)ss
COUNTY OF Harris)

On this 18th day of August, 2009 before me personally appeared Batakrishna Mandal, to me known and known to me to be the person described in and who executed the foregoing instrument, and he/she duly acknowledged to me that he/she executed the same for the uses and purposes therein set forth.



Judith Lyn Johle
Notary Public

ASSIGNMENT

WHEREAS, We, Paul Cooper, residing at 2222 Smith St #223, Houston, TX 77002, and Kristopher V Sherrill, residing at 12730 Smokey Mountain Court, Humble, TX 77346, and Ricardo Ortiz, residing at 1116 Smallwood Lane, Texas, Houston, TX 77023, and Daniel Flores, residing at 3000 N. Sam Houston Parkway E., Bldg. J, Room 3R41, Houston, TX 77032, and Batakrishna Mandal, residing at 4222 Bluewater Dr., Missouri City, TX 77459, made certain new and useful inventions and improvements which are described in an application for International Letters Patent on July 16, 2009, which application was assigned International patent application serial number PCT/US09/50859, and is entitled ACOUSTIC VELOCITY MEASUREMENTS USING TILTED TRANSDUCERS;

FOR GOOD AND VALUABLE CONSIDERATION, the receipt, sufficiency and adequacy of which are hereby acknowledged, the undersigned do hereby:

SELL, ASSIGN AND TRANSFER to Halliburton Energy Services, Inc. (the "Assignee"), a corporation of the State of Delaware, having a place of business at 10200 Bellaire Blvd, Houston, TX 77072, the entire right, title and interest for the United States and all foreign countries in and to: any and all inventions and improvements which are disclosed in the identified application for PCT Letters Patent, and which may be further identified below; such application and all divisional, continuing, substitute, renewal, reissue and all other applications for patent which have been or shall be filed in the United States (including all provisional and non-provisional applications), and in all foreign countries on any of such inventions and/or improvements (including any applications for utility models); all original and reissued patents which have been or shall be issued in the United States and all foreign countries on such inventions and/or improvements; and specifically including the right to file foreign applications under the provisions of any convention or treaty and to claim priority based on the identified application;

AUTHORIZE AND REQUEST that any attorney associated with U.S. PTO Customer No. 21186 may (directly or through his/her designee) delete, insert, or alter any information identifying this application, or any related application, below, after execution of this Assignment;

Additional Application Information

No Provisional claim for priority is being made at this time.

No U.S. Non-Provisional claim for priority is being made at this time.

International Application Serial No. PCT/US2009/002905, filed on May 11, 2009.

AUTHORIZE AND REQUEST the issuing authority to issue any and all United States and foreign patents granted on such improvements to the Assignee;

ASSIGNMENT

Client Ref. No. 2006-IP-021556/B-Billing # 2006-IP-021556

Docket No: 1880.275WO1

Assignors: Paul Cooper et al.

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WARRANT AND COVENANT that no assignment, grant, mortgage, license or other agreement affecting the rights and/or property herein conveyed has been or will be made to others by the undersigned, and that the full right to convey the same as herein expressed is possessed by the undersigned;

COVENANT, that when requested and without compensation, but at the expense of the Assignee, in order to carry out in good faith the intent and purpose of this Assignment, the undersigned will (1) execute all provisional, non-provisional, divisional, continuing, substitute, renewal, reissue, and all other patent applications on any and all such improvements; (2) execute all rightful oaths, declarations, assignments, powers of attorney and other papers; (3) communicate to the Assignee all facts known to the undersigned relating to such improvements and the history thereof; (4) cooperate with the Assignee in any interference, reexamination, reissue, opposition, dispute, or litigation involving any of the applications or patents for such improvements; and (5) take such further actions as the Assignee shall reasonably consider necessary or desirable for vesting title to such improvements in the Assignee, or for securing, maintaining and enforcing proper patent protection for such improvements;

THIS AGREEMENT IS TO BE BINDING on the heirs, assigns, representatives and successors of the undersigned, and is to extend to the benefit of the successors, assigns and nominees of the Assignee.

AGREED as of the date of my signature below:

ASSIGNMENT

Client Ref. No. 2006-IP-021556/13-Billing # 2006-IP-021556

Docket No: 1980.275WO1

Assignors: Paul Cooper et al.

Serial Number: PCT/US09/50859

Title: ACOUSTIC VELOCITY MEASUREMENTS USING TILTED TRANSDUCERS

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IN TESTIMONY WHEREOF, I have hereunto set my hand this ____ day of

____, 20____.

Paul Cooper

STATE OF _____)

)ss

COUNTY OF _____)

On this _____ day of _____, 20____ before me personally appeared Paul Cooper, to me known and known to me to be the person described in and who executed the foregoing instrument, and he/she duly acknowledged to me that he/she executed the same for the uses and purposes therein set forth.

[SEAL]

Notary Public

ASSIGNMENT

Client Ref. No. 2006-IP-021556/E-Billing # 2006-IP-021556

Docket No: 1880.275 WO1

Assignors: Paul Cooper et al.

Serial Number: PCT/US09/50859

Title: ACOUSTIC VELOCITY MEASUREMENTS USING TILTED TRANSDUCERS

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IN TESTIMONY WHEREOF, I have hereunto set my hand this ____ day of

____, 20____.

Kristopher V Sherrill

STATE OF _____)

)ss

COUNTY OF _____)

On this ____ day of _____, 20____ before me personally appeared Kristopher V Sherrill, to me known and known to me to be the person described in and who executed the foregoing instrument, and he/she duly acknowledged to me that he/she executed the same for the uses and purposes therein set forth.

[SEAL]

Notary Public

ASSIGNMENT

Client Ref. No. 2006-IP-021556/E-Billing # 2006-IP-021556

Docket No: 1880.275WO1

Assignors: Paul Cooper et al.

Serial Number: PCT/US09/50859

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IN TESTIMONY WHEREOF, I have hereunto set my hand this ____ day of

____, 20____.

Ricardo Ortiz

STATE OF _____)

)ss

COUNTY OF _____)

On this ____ day of _____, 20____ before me personally appeared Ricardo Ortiz, to me known and known to me to be the person described in and who executed the foregoing instrument, and he/she duly acknowledged to me that he/she executed the same for the uses and purposes therein set forth.

[SEAL]

Notary Public

ASSIGNMENT

Client Ref. No. 2006-IP-021556/H-Billing # 2006-IP-021556

Docket No: 1880.275WQ1

Assignors: Paul Cooper et al.

Serial Number: PCT/US09/50859

Title: ACOUSTIC VELOCITY MEASUREMENTS USING TILTED TRANSDUCERS

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IN TESTIMONY WHEREOF, I have hereunto set my hand this 15 day of
FEBRUARY, 20 10.



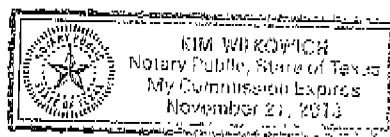
Daniel Flores

STATE OF Texas

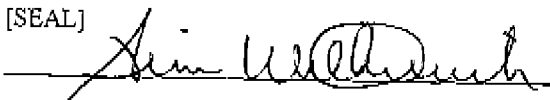
)ss

COUNTY OF Williamson

On this 15th day of February, 2010 before me personally appeared
Daniel Flores, to me known and known to me to be the person described in and who executed the
foregoing instrument, and he/she duly acknowledged to me that he/she executed the same for the
uses and purposes therein set forth.



[SEAL]



Notary Public

ASSIGNMENT

Client Ref. No. 2006-IP-021556/E-Billing # 2006-IP-021556

Docket No: 1880.275WO1

Assignors: Paul Cooper et al.

Serial Number: PC/01509/50859

Title: ACOUSTIC VELOCITY MEASUREMENTS USING TILTED TRANSDUCERS

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IN TESTIMONY WHEREOF, I have hereunto set my hand this ____ day of

____, 20____.

Batakrishna Mandal

STATE OF _____)

)ss

COUNTY OF _____)

On this _____ day of _____, 20____ before me personally appeared Batakrishna Mandal, to me known and known to me to be the person described in and who executed the foregoing instrument, and he/she duly acknowledged to me that he/she executed the same for the uses and purposes therein set forth.

[SEAL]

Notary Public