

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

EPAS ID: PAT5290050

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
KATERINA V. NEWMAN	11/19/2015
DALE E. JAMISON	07/14/2016
EARL JOSEPH CHAUVIN	12/23/2015
YERZHAN AYAPBERGENOV	11/14/2013
BRICE AARON JACKSON	11/19/2015
RECEIVING PARTY DATA	
Name:	HALLIBURTON ENERGY SERVICES, INC.
Street Address:	3000 N. SAM HOUSTON PARKWAY E.
City:	HOUSTON
State/Country:	TEXAS
Postal Code:	77032-3219
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	16219319
CORRESPONDENCE DATA	
Fax Number:	(713)622-0220
<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>	
Phone:	713-622-7005
Email:	ctumey@tumeyllp.com
Correspondent Name:	COREY TUMEY
Address Line 1:	P.O BOX 22188
Address Line 4:	HOUSTON, TEXAS 77227-2188
ATTORNEY DOCKET NUMBER:	1560-103605
NAME OF SUBMITTER:	COREY TUMEY
SIGNATURE:	/COREY TUMEY/
DATE SIGNED:	12/18/2018
Total Attachments: 13	
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560029
T-2016

EXHIBIT B

POST-EMPLOYMENT CERTIFICATION OF COMPLIANCE

Re: Halliburton's Confidential and Proprietary Information

I hereby acknowledge that I have been advised of my obligation to return all Halliburton confidential and proprietary information and other property. In addition, I acknowledge my obligation to protect against unauthorized disclosure of Halliburton confidential and proprietary information to any third parties, including all my future employers, without the express written consent of Halliburton.

I certify that I have returned all Halliburton confidential and proprietary information and other property in whatever form, and have turned over all electronic data storage devices which I used at any time to store Halliburton information, including all computers, USB data storage devices, memory cards, backup drives, or other data storage devices other than personal computers used only for routine checking of work emails that were not otherwise used for storage of Halliburton information, and from which all temporary cached browser information has been deleted.

I further certify that I have not e-mailed to any potential employer, competing business, third party, or to my personal email address any Halliburton confidential or proprietary information from any Halliburton databases. I further certify that my Halliburton emails or Halliburton confidential or proprietary information has not been copied by me to any other computer, phone, USB data storage device, memory card, or any other data storage device.

I acknowledge this certification serves as notice that failure to comply with my obligations to return and protect against the disclosure of all Halliburton confidential and proprietary information and other property could result in Halliburton seeking legal remedies against, me, including a claim for damages and possible injunctive relief, as well as a claim for attorneys' fees and costs pursuant to Chapter 38 of the Texas Civil Practice and Remedies Code.

Date 2/22/2016

Signature

Y. Agapkinov

Print Name

**INTELLECTUAL PROPERTY AND CONFIDENTIAL INFORMATION
AGREEMENT OF HALLIBURTON ENERGY SERVICES, INC.**

This Agreement is made by and between the Company (throughout the document "Company" means and includes Halliburton Energy Services, Inc., a Delaware corporation, and any and all subsidiaries or divisions of this corporation) and the undersigned (hereinafter referred to as "Employee"), and is effective as of the execution of this Agreement.

In consideration of Company's employment or continued employment of Employee (it being understood that such employment may be terminated at the will of the Company), Company's promise to provide (or providing) confidential information and/or specialized training to Employee during the course of his/her employment, the payment of a salary or other remuneration, and other consideration, the Parties agree as follows:

1. DISCLOSURE OF INVENTIONS. Employee agrees to promptly disclose in confidence to Company all ideas, discoveries, inventions, improvements, designs, original works of authorship, computer software or other electronic data, writings, developments and other valuable information (collectively referred to as "Inventions"), whether or not patentable, copyrightable or protectable as trade secrets, that relate to the Company's business or research and development and are authored, conceived, developed, or first reduced to practice or created by Employee (either solely or jointly with others) a) during the term of Employee's employment and b) and for a period of one (1) year after termination of employment, whether or not such Inventions are authored, conceived, developed or first reduced to practice in the course of his/her employment with Company.
2. FORM OF DISCLOSURE OF INVENTIONS. The disclosure of Inventions will include a sketch of the Invention, when possible of illustration, together with a description of the Invention, and the disclosure will bear the signature of the Employee and the date of the Employee's signature upon the disclosure. The disclosure of the Invention will be witnessed by at least one Company employee who will also sign and date the disclosure as individuals to whom the Invention has been fully disclosed.
3. ASSIGNMENT OF INVENTIONS. Employee agrees that all Inventions that are authored, conceived, developed, or first reduced to practice or created by Employee during the term of Employee's employment and for a period of one (1) year after termination of employment, either (a) resulting from using equipment, supplies, facilities, or trade secrets of the Company or resulting from work performed by Employee for the Company or (b) relating to the Company's business or current or anticipated research and development, are the sole and exclusive property of the Company, and such Inventions are hereby irrevocably assigned by Employee to the Company. The Employee acknowledges that the assignment of Employee's entire right, title and interest in and to any and all such Inventions to the Company is deemed effective upon the conception, development, first reduction to practice, or creation of the Invention by Employee. The Employee agrees, without further consideration and upon request by the Company, to assist and cooperate with the Company by executing any and all documents, and by performing any and all lawful acts, necessary to document the assignment to the Company of the Employee's right, title and interest in and to any and all such Inventions.
4. WORKS. In the performance of his/her duties as an employee of Halliburton, the undersigned may develop or assist in the development of computer programs or other works of authorship as defined in the Copyright Act of 1976, 17 U.S.C. Section 102 (hereinafter referred to as "WORK"). Any original work of authorship fixed in any tangible medium of expression which the undersigned creates as a Company employee shall be considered a work made for hire pursuant to the copyright laws of the United States. Upon completion of any WORK, Halliburton shall have the sole and exclusive right, title and interest (including trade secret and copyright interests) in such WORK. The undersigned hereby agrees to assign, and for no further consideration does assign, to Halliburton all of his/her worldwide right, title and interest in and to such WORK, including trade secret and copyright interests. The undersigned agrees to assist Halliburton and its nominee, at any time, in the

protection of Halliburton's worldwide right, title and interest in and to any WORK and all rights of copyright therein, including, but not limited to, the execution of all formal assignment documents requested and prepared by Halliburton or its nominee and the execution of all lawful oaths and applications for registration of copyright in the United States and foreign countries.

5. ASSIGNMENT OF APPLICATIONS / REGISTRATIONS - ASSISTANCE WITH PROSECUTION AND LITIGATION. The Employee hereby assigns to the Company, its successors and assigns, all of Employee's right, title, and interest in and to all U.S. and international applications for Letters Patent and copyright registrations that are filed by Company or the Employee to protect Inventions (including WORKS) that are assigned under this Agreement, whether such applications and registrations are filed during or subsequent to the term of Employee's employment. Employee agrees, without further consideration, to assist Company during and subsequent to the term of Employee's employment in every legal way in obtaining, at Company's expense, protection for such Inventions. Employee agrees to execute any and all papers, take all lawful oaths, and do all lawful acts required in or concerning such applications, and/or divisions, continuations, extensions, or renewals thereof and any application for the reissuance or reexamination of any patents granted thereon or on such divisions, continuations or renewals of such applications. Employee will, at the expense of the Company, assist in all proper ways, as by giving testimony in the conduct of any interference proceeding or litigation which involves or concerns either (a) the priority or originality of such Inventions or (b) the validity or the scope of patents granted on such Inventions.

6. ASSIGNMENT OF APPLICATIONS / REGISTRATIONS FILED BY EMPLOYEE AFTER TERMINATION. Employee further expressly agrees that any application for Letters Patent or copyright registrations that are (a) made by the Employee within one year after the termination of Employee's period of employment with the Company and (b) cover or relate to any matters of Company business or the Company's current or anticipated research and development as of the termination date, will be presumed to cover Inventions authored, conceived, developed, or first reduced to practice or created by Employee during the term of Employee's employment within the Company, and will be subject to this Agreement.

7. AWARDS FOR INVENTIONS. The Company may make awards for Inventions from time to time, but nothing herein contained will be construed as obligating the Company to make any award for any Invention.

8. CONFIDENTIALITY. Except as required in the conduct of the Company's business or as authorized by the Company in writing, the Employee also agrees that Employee will not, during or at any time after the term of the Employee's employment by the Company, use for the Employee or others, publish, disclose, claim ownership of, communicate, divulge or send to others, access, take or email, any private or secret or confidential information, knowledge, or correspondence of the Company, its vendors, consultants, affiliates, joint ventures, or customers that is obtained as a result of the Employee's employment by Company. The Employee acknowledges and agrees that any unauthorized use or disclosure of such private, secret or confidential information would cause irreparable harm to the Company.

9. RETURN OF DOCUMENTS UPON REQUEST OR TERMINATION. The Employee further agrees that all paper and electronic copies of memoranda, notes, records, drawings, emails, correspondence, programs; literature or other documents (hereinafter referred to collectively as Documents) made or compiled by the Employee, or made available to the employee, while employed by the Company concerning any process, apparatus, material or product manufactured, used, developed, investigated, or considered by the Company, or concerning any other Company activity, is the Company's property, and that all such Documents, including all electronic and paper copies thereof, will be promptly delivered to the Company in a manner that preserves such Documents, either to the Human Resources Department or to the Employee's manager, on the termination of the Employee's employment or upon an earlier request of the Company. This Agreement does not require the Company to demand its Documents from the Employee before the Employee is required to return them when

leaving the Company's employment. Under no circumstances following termination will the Employee possess any property of the Company or its vendors, consultants, affiliates, joint ventures, or customers, including any Documents or copies thereof containing any secret or confidential information of the Company or its vendors, consultants, affiliates, joint ventures, or customers. Prior to leaving, the Employee will cooperate with the Company by executing, at the request of the Company, a statement acknowledging the Employee's continuing obligations with respect to Documents of the Company, its vendors, consultants, affiliates, joint ventures, and customers, including obligations of confidentiality and non-use, and certifying that the Employee has not retained any confidential information or Documents of the Company or its vendors, consultants, affiliates, joint ventures, or customers.

10. TEMPORARY REMOVAL AND RETURN OF DOCUMENTS. The Employee further agrees that, if in the performance of the Employee's duties for the Company, it is necessary to temporarily remove Documents from the Company's premises, the Employee will remove only such Documents as necessary to perform such duties and will immediately return such Documents to the Company's premises upon completion of such duties and at any time upon request. Employee further agrees not to commingle such Documents with the Employee's personal records and documents. Employee agrees to maintain any back up copies of Documents at the Company's premises and not to maintain any back up copies away from the Company's premises. All Documents (including computer records, facsimile and e-mail) and materials created, received or transmitted in connection with the Employee's work or using Company facilities are presumptively Company property and subject to inspection by the Company at any time. Any computer media (e.g., disks, tapes, external thumb drives, flash drives, external hard drives, DVDs or CDs) or personally owned computers of Employee (including the contents of the computer's hard drive) on which any Company documents or information has been stored may also be reviewed by the Company to determine if they contain the Company's information or documents.

11. ACCESS TO COMPANY INFORMATION AND TRAINING. Upon the signing of this Agreement, the Company will make available to the Employee and the Employee will receive commercial and/or technical information and communications relating to the Company products, services and business activities (including but not limited to private, confidential or secret information). Employee agrees that while employed by Company and for a period of one (1) year following the date of termination of Employee's employment with Company, Employee will not, for Employee's own account or for the account of others, (a) use or disclose any Company trade secret and/or confidential information or (b) work in any position where Employee would inevitably use and/or disclose Company's trade secret or confidential information.

12. This Agreement will be governed and interpreted in accordance with the internal laws of the State of Texas, excluding that body of law governing conflicts of law. The Employee understands that in the event of a breach or threatened breach of this Agreement by the Employee the Company may suffer irreparable harm and will therefore be entitled to injunctive relief to enforce this Agreement.

13. In the event that any provision of this Agreement is found by a court, arbitrator, or other tribunal to be illegal, invalid, or unenforceable, then such provision will not be voided, but will be enforced to the maximum extent permissible under applicable law, and the remainder of this Agreement will remain in full force and effect.

14. This Agreement will inure to the benefit of and be binding upon Company and its successors and assigns, and upon Employee and his/her heirs and legal representatives.

15. This Agreement may be modified, superseded or amended only in a writing that is signed by an authorized representative of Company and by Employee.

16. This Agreement constitutes the entire agreement between the parties hereto with respect to the subject matter hereof and supersedes all prior oral or written agreements, commitments, or understandings with respect to such matters.

17. The Company does not wish to receive from Employee any confidential or proprietary information of any third party to whom Employee owes an obligation of confidence. Accordingly, Employee represents and warrants that any information Employee either discloses to Company or uses while employed by Company is not subject to any obligation of confidentiality to any former employer or other third party.

18. Employee agrees that while employed by Company, and during the one (1) year period immediately following the end of such employment, Employee will neither directly nor indirectly, on his/her own behalf or on behalf of any person or entity, in any capacity, recruit or hire or assist others in recruiting or hiring any person who is, or was, during the period of Employee's employment with Company, an employee or consultant of Company.

19. The Employee further declares that he/she does not now own or claim any patents, patent rights, inventions, copyrights, or trade secrets relating to business of the Company other than the following, which have not been assigned to the Company:

Executed on this 14 day of NOVEMBER, 2013.

[Signature]
Signature of Employee

469465
Employee #

YERZMAN AYAPBERGENOV
Name Typed or Printed

Halliburton Energy Services, Inc.

(completed by the Halliburton representative observing the Employee's execution of this Agreement)

By: [Signature]

Print Name: JAMES BRADSHAW

Title: HR GENERALIST

Date: Nov 14, 2014

DECLARATION AND ASSIGNMENT for 2015-IPM-099410 U1 PCT

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 _____ filed on _____; and,

Entitled:

BENEFICIATING WEIGHTING AGENTS

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.

Moreover, Whereas, HALLIBURTON ENERGY SERVICES, INC., a Delaware Corporation, having a place of business at 3000 N. Sam Houston Parkway E., Houston, TX 77032-3219 (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, I, 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 national phase, divisional, continuing, continuation-in-part, 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.

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,

DECLARATION AND ASSIGNMENT for 2015-IPM-099410 U1 PCT

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.

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 patent office proceeding or litigation.

I do further grant the power to amend the following information on this document: the title of the application and the filing designation (attached or by reference to an application number) as required by or in view of any rules or requirements of the United States Patent and Trademark Office or any other patent regulatory authority.

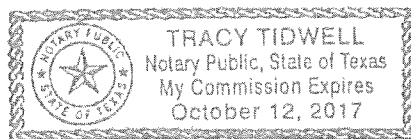
Executed this 19th day of November, 2015

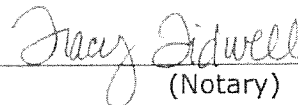

KATERINA V. NEWMAN

STATE OF Texas)
COUNTY OF Harris)

Before me personally appeared said KATERINA V. NEWMAN and acknowledged the foregoing instrument to be a free act and deed this 19th day of November, 2015.

Seal




(Notary)

DECLARATION AND ASSIGNMENT for 2015-IPM-099410 U1 PCT

6

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/US2015/064189 filed on December 7, 2015; and,

Entitled:

BENEFICIATING WEIGHTING AGENTS

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.

Moreover, Whereas, HALLIBURTON ENERGY SERVICES, INC., a Delaware Corporation, having a place of business at 3000 N. Sam Houston Parkway E., Houston, TX 77032-3219 (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, I, 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 national phase, divisional, continuing, continuation-in-part, 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.

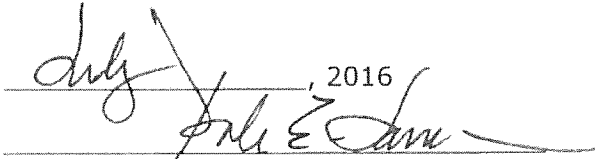
I do further agree to sign all papers, make all rightful oaths and do all requisite acts for the filing of any disclaimer or for the filing and assignment of any divisional,

DECLARATION AND ASSIGNMENT for 2015-IPM-099410 U1 PCT

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.

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 patent office proceeding or litigation.

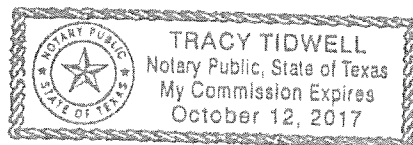
I do further grant the power to amend the following information on this document: the title of the application and the filing designation (attached or by reference to an application number) as required by or in view of any rules or requirements of the United States Patent and Trademark Office or any other patent regulatory authority.


Executed this 14 day of July, 2016

DALE E. JAMISON

STATE OF Texas)
COUNTY OF Harris)

Before me personally appeared said DALE E. JAMISON and acknowledged the foregoing instrument to be a free act and deed this 14th day of July, 2016.

Seal




(Notary)

DECLARATION AND ASSIGNMENT for 2015-IPM-099410 U1 PCT

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 _____ filed on _____; and,

Entitled:

BENEFICIATING WEIGHTING AGENTS

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.

Moreover, Whereas, HALLIBURTON ENERGY SERVICES, INC., a Delaware Corporation, having a place of business at 3000 N. Sam Houston Parkway E., Houston, TX 77032-3219 (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, I, 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 national phase, divisional, continuing, continuation-in-part, 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.

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,

DECLARATION AND ASSIGNMENT for 2015-IPM-099410 U1 PCT

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I do further grant the power to amend the following information on this document: the title of the application and the filing designation (attached or by reference to an application number) as required by or in view of any rules or requirements of the United States Patent and Trademark Office or any other patent regulatory authority.

Executed this 23rd day of December, 2015

Earl Joseph Chauvin
EARL JOSEPH CHAUVIN

STATE OF)
)
COUNTY OF)

Before me personally appeared said EARL JOSEPH CHAUVIN and acknowledged the foregoing instrument to be a free act and deed this 23rd day of December, 2015.

Seal

Pauline Poh
WITNESS (Notary)
PAULINE POH

DECLARATION AND ASSIGNMENT for 2015-IPM-099410 U1 PCT

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 _____ filed on _____; and,

Entitled:

BENEFICIATING WEIGHTING AGENTS

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.
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NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, I, 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 national phase, divisional, continuing, continuation-in-part, 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.

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DECLARATION AND ASSIGNMENT for 2015-IPM-099410 U1 PCT

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.

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 patent office proceeding or litigation.

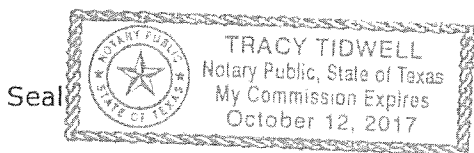
I do further grant the power to amend the following information on this document: the title of the application and the filing designation (attached or by reference to an application number) as required by or in view of any rules or requirements of the United States Patent and Trademark Office or any other patent regulatory authority.

Executed this 19th day of November, 2015

Brice Aaron Jackson
BRICE AARON JACKSON

STATE OF Texas)
COUNTY OF Harris)

Before me personally appeared said BRICE AARON JACKSON and acknowledged the foregoing instrument to be a free act and deed this 19th day of November, 2015.



Tracy Tidwell
(Notary)