

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT4197602

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
JEFFREY D. FISCHER	12/19/2016
LUKE T. DAUM	12/21/2016
GERALD W. FISCHER	12/19/2016
RECEIVING PARTY DATA	
Name:	LONGHORN VACCINES AND DIAGNOSTICS, LLC
Street Address:	2 BETHESDA METRO CENTER
Internal Address:	SUITE 910
City:	BETHESDA
State/Country:	MARYLAND
Postal Code:	20814
PROPERTY NUMBERS Total: 2	
Property Type	Number
Application Number:	15361228
PCT Number:	US2016063767
CORRESPONDENCE DATA	
Fax Number:	(888)570-7381
<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:	202-570-7380
Email:	mail@remenicklaw.com
Correspondent Name:	REMENICK PLLC
Address Line 1:	1025 THOMAS JEFFERSON STREET, NW
Address Line 2:	SUITE 175
Address Line 4:	WASHINGTON, D.C. 20007
ATTORNEY DOCKET NUMBER:	3022.036.US
NAME OF SUBMITTER:	JAMES REMENICK
SIGNATURE:	/James Remenick/
DATE SIGNED:	12/22/2016
Total Attachments: 8	

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source=3022_036US_executedassignment#page8.tif

ASSIGNMENT

WHEREAS, we, Jeffrey D. Fischer, with a residence address at 3311 Cathedral Ave., NW, Washington, DC 20008; Luke T. Daum, with a residence address at 318 Larkwood Drive, San Antonio, TX 78209; and Gerald W. Fischer, with a residence address at 6417 Lybrook Drive, Bethesda, MD 20817, (the "Assignors") are the inventors and owners of all right, title, and interest in and to the improvements entitled:

COMPOSITIONS AND METHODS FOR DETECTING AND QUANTIFYING NUCLEIC ACID SEQUENCES IN BLOOD SAMPLES

which is disclosed and described in United States Patent Application No. 15/361,228, filed November 25, 2016, United States Provisional Patent Application No. 62/260,064, filed November 25, 2015, and International Application No. PCT/US2016/63767, filed November 25, 2016 (the "Applications"), and any and all National Stage applications corresponding thereto.

WHEREAS, Longhorn Vaccines and Diagnostics, LLC, a company having a place of business located at 2 Bethesda Metro Center, Suite 910, Bethesda, MD 20814 (the "Assignee"), is desirous of acquiring all rights to the improvements and under the application;

NOW, THEREFORE, in view of good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged by Assignors, Assignors do hereby sell, assign and transfer unto said Assignee, its successors, assigns and legal representatives, Assignors' entire right, title, and interest in the above-referenced Applications, including any non-provisional applications that claim priority thereto, all right to claim priority and all right of recovery for prior infringement, in and throughout the United States of America (including its territories and dependencies) and all countries foreign thereto in and to said improvements, said United States application, any other United States applications, including any other provisional, and any non-provisional, divisional, renewal, substitute, continuation, reexamination and reissue applications, based in whole or in part on said United States provisional application or in whole or in part on said invention, any right of priority based in whole or in part on any of the aforesaid United States provisional applications or in whole or in part on said improvements, any foreign applications, including international and regional applications, based in whole or in part on any of the aforesaid United States applications or in whole or in part on said improvements, and in and to any and all letters patent, including extensions thereof, of any country which have been or may be granted on any of the aforesaid applications or on said improvements or any parts thereof;

AND Assignee hereby authorizes and requests its agents, Remenick PLLC, whose address is 1025 Thomas Jefferson Street, N.W., Suite 175, Washington, D.C. 20007, to insert hereon any identification necessary or desirable for recordation of this document or any information necessary to correct typographical, grammatical or other errors in this document, including the filing date and application number of said application when known;

AND Assignors hereby agree for themselves and their heirs, executors, administrators, successors and assigns to execute without further consideration any further documents and instruments which may be necessary, lawful and proper in the prosecution of said above-referenced application or in the preparation or prosecution of any continuing, substitute,

divisional, renewal, reexamination or reissue application or in any amendments, extensions or interference proceedings, or other applications for patents of any region or country, that may be necessary to secure to Assignee its interest and title in and to said improvements or any parts thereof, and in and to said several patents or any of them;

AND Assignors hereby covenant for themselves and their legal representatives, and agrees with said Assignee, its successors and assigns, that Assignors have granted no right or license to make, use, sell or offer to sell said improvements, to anyone except said Assignee, that prior to the execution of this deed, its right, title, and interest in said improvements had not been otherwise encumbered, and that Assignors have not and will not execute any instrument in conflict therewith;

AND Assignors do hereby authorize and request the United States Commissioner for Patents to issue any and all letters patent which may be granted upon said United States applications, or upon said improvements or any parts thereof when granted, to said Assignee.

IN WITNESS WHEREOF, Assignors hereunto set their hand and seal.

FOR THE ASSIGNORS (THE INVENTORS):

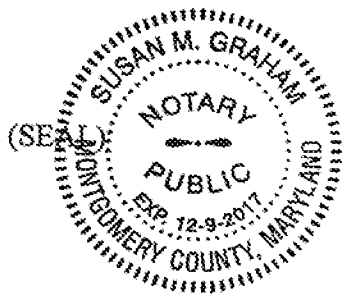


Name: Jeffrey D. Fischer

Date: December 19, 2016

County of Montgomery)
) ss:
State of Maryland)

On this 19th day of December 2016, before me a Notary Public in and for the County and State aforesaid, personally appeared Jeffrey D. Fischer, to me known and known to me to be the person of that name, who signed and sealed the foregoing instrument, and acknowledged the same to be of his free act and deed.





Susan M. Graham, Notary Public
My Commission Expires: 12/9/17

Date: December __, 2016

Name: Luke T. Daun

County of _____)
) ss:
 State of _____)

On this _____ day of _____ 2016, before me a Notary Public in and for the County and State aforesaid, personally appeared Luke T. Daum, to me known and known to me to be the person of that name, who signed and sealed the foregoing instrument, and acknowledged the same to be of his free act and deed.

Notary Public

(SEAL)

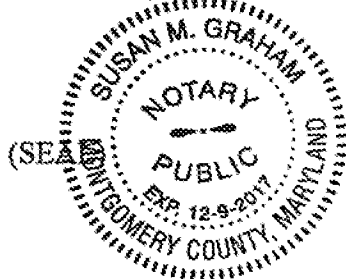
My Commission Expires _____


Name: Gerald W. Fischer

Date: December 19, 2016

County of Montgomery)
) ss:
State of Maryland)

On this 19th day of December 2016, before me a Notary Public in and for the County and State aforesaid, personally appeared Gerald W. Fischer, to me known and known to me to be the person of that name, who signed and sealed the foregoing instrument, and acknowledged the same to be of his free act and deed.



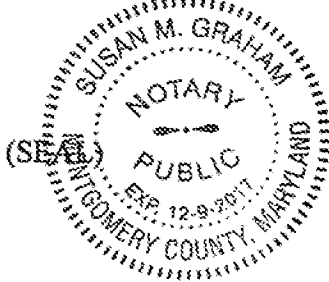
Susan M. Graham, Notary Public
My Commission Expires: 12/9/17

FOR ASSIGNEE: LONGHORN VACCINES AND DIAGNOSTICS, LLC

By: Gerald W. Fischer Date: December 19, 2016
Name: Gerald W. Fischer
Title: President & CEO

County of Montgomery)
) ss:
State of Maryland)

On this 19th day of December 2016, before me a Notary Public in and for the County and State aforesaid, personally appeared Gerald W. Fischer, to me known and known to me to be the person of that name, who signed and sealed the foregoing instrument, and acknowledged the same to be of his free act and deed.



Susan M. Graham
Susan M. Graham, Notary Public
My Commission Expires: 12/9/17

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AND Assignee hereby authorizes and requests its agents, Remenick PLLC, whose address is 1025 Thomas Jefferson Street, N.W., Suite 175, Washington, D.C. 20007, to insert hereon any identification necessary or desirable for recordation of this document or any information necessary to correct typographical, grammatical or other errors in this document, including the filing date and application number of said application when known.

AND Assignors hereby agree for themselves and their heirs, executors, administrators, successors and assigns to execute without further consideration any further documents and instruments which may be necessary, lawful and proper in the prosecution of said above-referenced application or in the preparation or prosecution of any continuing, substitute,

divisional, renewal, reexamination or reissue application or in any amendments, extensions or interference proceedings, or other applications for patents of any region or country, that may be necessary to secure to Assignee its interest and title in and to said improvements or any parts thereof, and in and to said several patents or any of them;

AND Assignors hereby covenant for themselves and their legal representatives, and agrees with said Assignee, its successors and assigns, that Assignors have granted no right or license to make, use, sell or offer to sell said improvements, to anyone except said Assignee, that prior to the execution of this deed, its right, title, and interest in said improvements had not been otherwise encumbered, and that Assignors have not and will not execute any instrument in conflict therewith;

AND Assignors do hereby authorize and request the United States Commissioner for Patents to issue any and all letters patent which may be granted upon said United States applications, or upon said improvements or any parts thereof when granted, to said Assignee.

IN WITNESS WHEREOF, Assignors hereunto set their hand and seal.

FOR THE ASSIGNORS (THE INVENTORS):

Name: Jeffrey D. Fischer

Date: _____, 2016

County of _____)
 State of _____) ss:

On this _____ day of _____, 2016, before me a Notary Public in and for the County and State aforesaid, personally appeared Jeffrey D. Fischer, to me known and known to me to be the person of that name, who signed and sealed the foregoing instrument, and acknowledged the same to be of his free act and deed.

(SEAL)

Notary Public

My Commission Expires

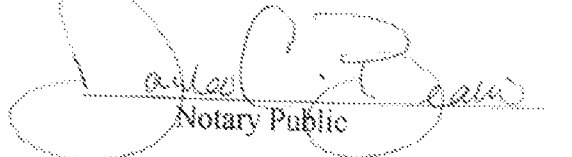

 Name: Luke T. Daum

Date: DEC 21, 2016

County of BEXAR)
) ss:
 State of TEXAS)

On this 21 day of December 2016, before me a Notary Public in and for the County and State aforesaid, personally appeared Luke T. Daum, to me known and known to me to be the person of that name, who signed and sealed the foregoing instrument, and acknowledged the same to be of his free act and deed.




 Notary Public
 My Commission Expires 2-11-2017

Name: Gerald W. Fischer

Date: _____, 2016

County of _____)
) ss:
 State of _____)

On this _____ day of _____ 2016, before me a Notary Public in and for the County and State aforesaid, personally appeared Gerald W. Fischer, to me known and known to me to be the person of that name, who signed and sealed the foregoing instrument, and acknowledged the same to be of his free act and deed.

(SEAL)

 Notary Public
 My Commission Expires _____
 My Commission Expires _____

FOR ASSIGNEE: LONGHORN VACCINES AND DIAGNOSTICS, LLC

By: _____
Name: Gerald W. Fischer
Title: President & CEO

Date: _____, 2016

County of _____)
State of _____) ss:
_____)

On this _____ day of _____ 2016, before me a Notary Public in and for the County and State aforesaid, personally appeared Gerald W. Fischer, to me known and known to me to be the person of that name, who signed and sealed the foregoing instrument, and acknowledged the same to be of his free act and deed.

(SEAL)

Notary Public

My Commission Expires _____