

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	ASSIGNMENT	
CONVEYING PARTY DATA		
	Name	Execution Date
	JOHN W. SHEPHERD	06/02/2020
RECEIVING PARTY DATA		
Name:	KENTUCKY BIOPROCESSING, INC.	
Street Address:	401 NORTH MAIN STREET, C/O REYNOLDS AMERICAN INC.	
Internal Address:	A CORPORATION ORGANIZED UNDER THE LAWS OF NORTH CAROLINA	
City:	WINSTON-SALEM	
State/Country:	NORTH CAROLINA	
Postal Code:	27101	
PROPERTY NUMBERS Total: 1		
	Property Type	Number
	Application Number:	17966954
CORRESPONDENCE DATA		
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<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>		
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NAME OF SUBMITTER:	MAX E. BRIDGES, REG. NO. 76099	
SIGNATURE:	/Max E. Bridges/	
DATE SIGNED:	10/19/2022	
Total Attachments: 3		
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Assignment for Utility or Design Patent Application

FOR GOOD AND VALUABLE CONSIDERATIONS, receipt of which is acknowledged, I, **John W. Shepherd**, having a mailing address of 4169 Hayden Road, Owensboro, Kentucky 42303 USA, do hereby sell, assign and transfer unto Kentucky BioProcessing, Inc., having a mailing address of 401 North Main Street, c/o Reynolds American Inc., Winston-Salem, North Carolina 27101 USA, referred to herein as "**ASSIGNEE**," being a corporation organized under the laws of North Carolina, the entire right, title and interest held by me in and to the applications referenced below:

- (i) U.S. Provisional Patent Application serial number 62/683,865, with a filing date of June 12, 2018 (the "**'865 Provisional**");
- (ii) PCT Patent Application PCT/US19/36559, with a filing date of June 11, 2019 (the "**PCT Application**"), which claims the benefit of and priority under 35 U.S.C. § 119(e) to the '865 Provisional;
- (iii) U.S. Application No. 16/437,734, with a filing date of June 11, 2019 (the "**'734 Application**"), which claims the benefit of and priority under 35 U.S.C. § 119(e) to the '865 Provisional;
- (iv) U.S. Application No. 16/437,770, with a filing date of June 11, 2019 (the "**'770 Application**") which claims the benefit of and priority under 35 U.S.C. § 119(e) to the '865 Provisional;
- (v) U.S. Continuation-in-Part Application No. 16/709,063, with a filing date of Dec. 10, 2019 (the "**'063 CIP Application**"), which under 35 U.S.C. § 120, claims the benefit of and priority to, at least, the copending '734 Application;
- (vi) U.S. Provisional Patent Application No. 63/013,284, with a filing date of April 21, 2020 (the "**'284 Provisional**"); and,
- (vii) U.S. Provisional Patent Application No. _____, filed on _____ (the "**'_____ Provisional**").
- (viii) all subsequent applications including without limitation any other nonprovisional, national stage, substitute, continuation, continuation-in-part, and/or divisional application(s) based in whole or in part on the '865 Provisional, the PCT Application, the '734 Application, the '770 Application, the '063 CIP Application, the '284 Provisional, or the '_____ Provisional; and
- (ix) any and all applications for Letters Patent of all foreign countries or PCT International Applications based in whole or in part on the '865 Provisional, the PCT Application, the '734 Application, the '770 Application, the '063 CIP Application, the '284 Provisional, or the '_____ Provisional or subsequent applications described in sub-part (ix)

above and the applications to which priority is claimed in sub-parts (i)-(vii), to the full extent of ASSIGNEE's ownership (collectively, the applications identified in sub-parts (i)-(ix) being referred to herein as the "**Applications**"), further to include any and all Letters Patent issuing on any of the Applications, the same to be held and enjoyed by ASSIGNEE, its successors, assigns or other legal representatives, to the full ends of the terms of all said Letters Patent therefor which may be granted.

I AUTHORIZE ASSIGNEE to make application for and to receive Letters Patent for said invention in any of said countries in ASSIGNEE's own name, or in my name, at its election, and to claim any and all priority rights as may exist.

I DO HEREBY COVENANT AND AGREE to execute or procure any further necessary assurance of the title to said invention, applications, and any Letters Patent which may issue therefore, and, at any time, upon request and at the expense of ASSIGNEE, to deliver any testimony in any legal proceedings and execute all papers that may be necessary or desirable to perfect the title to said invention, applications, or any Letters Patent which may be granted therefor in ASSIGNEE, its successors, assigns, or other legal representatives, and, at any time, upon the request and at the expense of ASSIGNEE, to execute any nonprovisional, substitute, continuations, continuations-in-part, divisionals, or any other additional applications of Letters Patent for said invention or any part or parts thereof, all of which applications and any Letters Patent issuing thereon are hereby assigned to ASSIGNEE, and, to make all rightful oaths, and to do all lawful acts requisite for procuring the same therein, without further compensation, but at the expense of ASSIGNEE, its successors, assigns or other representatives.

I DO HEREBY AUTHORIZE AND REQUEST the Commissioner of Patents to issue any and all Letters Patent of the United States or any other country or jurisdiction for said invention, resulting from any of the aforesaid Applications to said ASSIGNEE.

I DO HEREBY COVENANT that I have not executed, and will not execute, any agreement in conflict herewith, and that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with the full conveyance of entire right, title and interest to the invention and Application described herein.

AND I DO HEREBY GRANT the law firm of Wyatt, Tarrant & Combs, LLP, the power to insert on this Assignment any further identification which may be necessary or desirable in order to comply with the rules of the U.S. Patent and Trademark Office or other patent office for recordation of this document, including serial numbers and filing dates.


John W. Shepherd

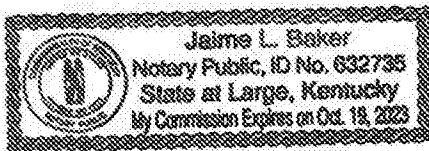
Address: 4169 Hayden Road
Owensboro, Kentucky 42303 USA

COMMONWEALTH OF)
KENTUCKY)
COUNTY OF Daviess) :SS

ACKNOWLEDGEMENT

The foregoing instrument was subscribed, sworn to and acknowledged before me this 02
day of June, 2020, by John W. Shepherd.

My commission expires: _____




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