

## PATENT ASSIGNMENT COVER SHEET

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 Stylesheet Version v1.2

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<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT	
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT	
<b>CONVEYING PARTY DATA</b>		
	<b>Name</b>	<b>Execution Date</b>
	WILLIAM SERBER	07/11/2019
	ERIK JEDEDIAH DEAN	07/11/2019
<b>RECEIVING PARTY DATA</b>		
<b>Name:</b>	ZYMERGEN INC.	
<b>Street Address:</b>	5980 HORTON STREET	
<b>Internal Address:</b>	SUITE 105	
<b>City:</b>	EMERYVILLE	
<b>State/Country:</b>	CALIFORNIA	
<b>Postal Code:</b>	94608	
<b>PROPERTY NUMBERS Total: 1</b>		
<b>Property Type</b>	<b>Number</b>	
<b>Application Number:</b>	16609360	
<b>CORRESPONDENCE DATA</b>		
<b>Fax Number:</b>		
<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>		
<b>Email:</b>	ptocommunications@almanacip.com	
<b>Correspondent Name:</b>	ALMANAC IP ADVISORS LLP	
<b>Address Line 1:</b>	22 HOFFMAN AVE	
<b>Address Line 4:</b>	SAN FRANCISCO, CALIFORNIA 94114	
<b>ATTORNEY DOCKET NUMBER:</b>	ZYM005USRG01	
<b>NAME OF SUBMITTER:</b>	SATYADEV RAJESH PATEL	
<b>SIGNATURE:</b>	/Satyadev R. Patel, Reg. No. 75083/	
<b>DATE SIGNED:</b>	10/29/2019	
<b>Total Attachments: 3</b>		
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source=ZYM0015-WO-00 Assignment_SIGNED_ZYM005WOPCT#page2.tif		
source=ZYM0015-WO-00 Assignment_SIGNED_ZYM005WOPCT#page3.tif		

Attorney Docket No.: ZYM005WOPCT  
International App. No. PCT/US2018/031258  
Priority application: US Provisional App. No.: 62/502,495

## ASSIGNMENT

This assignment is made by and between ASSIGNORS, identified below, and Zymergen Inc., a Delaware corporation having its principal place of business at 5980 Horton Street, Suite 105, Emeryville, CA, U.S.A., (referred to hereinafter as "ASSIGNEE").

**WHEREAS**, ASSIGNORS have invented certain subject matter, including one or more inventions, disclosed in a PCT application, entitled "MICROBIAL ENGINEERING METHODS AND SYSTEMS FOR OPTIMIZING MICROBE FITNESS," International App. No. PCT/US2018/031258, filed on May 4, 2018 (the "APPLICATION"), which claims priority to US Provisional Application No. 62/502,495, filed on May 5, 2017, which APPLICATION and inventions described in the APPLICATION, together with related experimental data, trade secret, and other know-how are referred to hereinafter as the INVENTION;

**WHEREAS**, ASSIGNORS have assigned, or are under an obligation to assign, the INVENTION to ASSIGNEE;

**WHEREAS**, ASSIGNEE, is desirous of obtaining the entire right, title and interest, or if already obtained, confirming its entire right, title and interest in, to and under said INVENTION, and in, to and under Letters Patent or similar legal protection to be, or having been, obtained therefor in the United States of America, its territorial possessions and in any and all countries foreign thereto;

**NOW, THEREFORE**, for good and valuable consideration, the receipt of which is hereby acknowledged, ASSIGNORS have assigned, transferred and set over and hereby now assign, transfer and set over unto the ASSIGNEE, its successors and assigns ASSIGNORS' entire right, title and interest in and to the INVENTION, and to all Letters Patent or similar legal protection arising therefrom, not only in the United States and its territorial possessions but also in all countries foreign thereto, to be or that have been obtained for said INVENTION by the APPLICATION or any application that claims priority or benefit to or from the APPLICATION, including, without limitation, any utility application, continuation, continuation-in-part, divisional, renewal, substitute, reissue or reexamination thereof or any legal equivalent of any of the foregoing in a foreign country, including any national phase application, application for industrial property protection, utility model, inventor certificate or designs (the foregoing domestic and foreign applications, patents and other intellectual property rights collectively referred to herein as the "INVENTION FAMILY"), for the full term or terms for which the same may be granted.

ASSIGNORS further assign to ASSIGNEE all rights to claim priority to the APPLICATION under any International Convention, including the Paris Convention for the Protection of Industrial Property.

ASSIGNORS hereby covenant that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this Assignment;

ASSIGNORS will, upon ASSIGNEE's request, promptly provide ASSIGNEE with all pertinent facts and documents relating to said INVENTION FAMILY, including, without limitation, the APPLICATION, and any Letters Patent and legal equivalents in foreign countries issuing therefrom as may be known and accessible to ASSIGNORS, and will testify as to the same in any administrative proceeding, litigation or other legal proceeding related thereto and will promptly execute and deliver to ASSIGNEE or its legal representatives any and all papers,

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instruments or affidavits required to apply for, obtain, maintain, issue and enforce said INVENTION FAMILY, including said Letters Patent and said equivalents thereof in any foreign country which may be necessary or desirable to carry out the purposes thereof;

ASSIGNORS authorize and request the Commissioner for Patents and Trademarks of the United States, and any Official of any country or countries foreign to the United States, whose duty it is to issue patents or other evidence or forms of industrial property protection on applications as aforesaid, to issue the same to said ASSIGNEE, its successors and assigns, in accordance with the terms of this Assignment; and

ASSIGNORS covenants to perform all acts and execute and deliver all documents as may be necessary or appropriate to carry out the intent and purposes of this Assignment.

To the extent this Assignment is inconsistent with any pre-existing assignments or understandings, this Assignment supersedes any such inconsistent provisions in such pre-existing assignments or understandings. Except as provided herein, no amendment or modification of this Assignment shall be valid or binding upon ASSIGNORS or ASSIGNEE unless made in writing and signed by each of ASSIGNORS and ASSIGNEE or on their behalf by their respective duly authorized representative.

ASSIGNORS acknowledge that ASSIGNEE may appoint any attorney or practitioner of ASSIGNEE'S choice to prosecute any application, pay maintenance fees or annuities, or participate in any legal proceeding involving said INVENTION FAMILY. ASSIGNORS further acknowledge that any attorney or practitioner so appointed by ASSIGNEE does not represent ASSIGNORS and that such appointment by ASSIGNEE does not create any attorney-client relationship between ASSIGNORS and any attorney or practitioner appointed by ASSIGNEE.

ASSIGNORS hereby acknowledge that ASSIGNEE owns all right, title, interest and standing of ASSIGNORS in and to the INVENTION FAMILY, and grants to ASSIGNEE the right to institute and prosecute all suits and proceedings and take all actions to collect, assert or enforce any claim, right or title of any kind in and to the INVENTION FAMILY, including the right to sue for and collect damages for infringement of any member of the INVENTION FAMILY. ASSIGNEE hereby acknowledges and confirms receipt and acceptance of all rights conveyed by this Assignment.

ASSIGNORS grant to the legal representatives appointed by ASSIGNEE the power and authority to insert on this Assignment any further identification which may be necessary or desirable to comply with the rules of the patent office of any country or countries for recordation of this document.

This Assignment may be executed in any number of counterparts, each of which shall be deemed an original but all of which together shall constitute one and the same instrument.

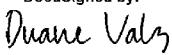
BY ASSIGNORS:

DocuSigned by:  
  
Name: William Serber Date: 7/11/2019  
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Attorney Docket No.: ZYM005WOPCT  
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Priority application: US Provisional App. No.: 62/502,495

DocuSigned by:  
  
Name: Erik Jedediah Dean Date: 7/11/2019

BY ASSIGNEE:

DocuSigned by:  
  
Name: Duane Valz Date: 7/11/2019  
Vice President & General Counsel