

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

Assignment ID: PATI532420

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
Zymergen Inc.	01/18/2024
RECEIVING PARTY DATA	
Company Name:	Zymergen Acquisition Sub, Inc.
Street Address:	27 Drydock Ave.
City:	Boston
State/Country:	MASSACHUSETTS
Postal Code:	02210
PROPERTY NUMBERS Total: 4	
Property Type	Number
Application Number:	17299777
Application Number:	17928265
PCT Number:	US2135956
PCT Number:	US1965055
CORRESPONDENCE DATA	
Fax Number:	5106630920
<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:	(510)663-1100
Email:	sjoshi@wavsip.com
Correspondent Name:	Weaver Austin Villeneuve & Sampson LLP
Address Line 1:	P.O. BOX 70250
Address Line 4:	OAKLAND, CALIFORNIA 94612-0250
ATTORNEY DOCKET NUMBER:	ZMGNP027-P042_Zym-ZAS
NAME OF SUBMITTER:	Swapnali Joshi
SIGNATURE:	Swapnali Joshi
DATE SIGNED:	10/07/2024
Total Attachments: 38	
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INTELLECTUAL PROPERTY ASSIGNMENT AGREEMENT

This INTELLECTUAL PROPERTY ASSIGNMENT AGREEMENT, dated as of January 18, 2024 (this “**Agreement**”), is entered into by and among Zymergen Inc., a Delaware corporation, Lodo Therapeutics Corporation, a Delaware corporation, enEvolv, Inc., a Delaware corporation, Genesis Acquisition Sub, LLC, a Delaware limited liability company (together, the “**Sellers**”), and Zymergen Acquisition Sub, Inc., a Delaware corporation (the “**Designated Purchaser**”). Capitalized terms used but not otherwise defined herein have the meanings ascribed to such terms in the Purchase Agreement (as defined below).

W I T N E S S E T H:

WHEREAS, Ginkgo Bioworks, Inc., a Delaware corporation and the Sellers have entered into that certain Asset Purchase Agreement, dated as of October 3, 2023 (the “**Purchase Agreement**”), pursuant to which the Purchaser (or any Affiliates of the Purchaser that have been properly designated by the Purchaser in accordance with Section 1.9 of the Purchase Agreement) will acquire, among other things, all of right, title and interest of the Sellers in, to and under the Seller Intellectual Property and Licensed IP; and

WHEREAS, pursuant to that certain Notice of Designation of Alternative Purchaser, dated as of December 29, 2023 (the “**Notice of Designation of Alternative Purchaser**”), the Designated Purchaser was properly designated by the Purchaser in accordance with Section 1.9 of the Purchase Agreement to (i) exercise the Purchaser’s right under Section 1.1(a) of the Purchase Agreement to purchase, acquire and accept at the Closing all of Seller Intellectual Property and Licensed IP listed, described or otherwise identified on Schedule 1 thereto (such Intellectual Property the “**Acquired Intellectual Property**” and such Licensed IP, the “**Acquired Licensed IP**”), together with all of the Purchaser’s other rights under the Purchase Agreement in respect thereof and (ii) otherwise honor the Purchaser’s obligations at the Closing as contemplated by Section 1.9 of the Purchase Agreement; and

WHEREAS, the Sellers and the Designated Purchaser now desire to carry out the intent and purpose of the Purchase Agreement by the Sellers’ and the Designated Purchaser’s execution and delivery of this Agreement evidencing and effecting the sale, transfer, assignment, conveyance and delivery to the Designated Purchaser of the Sellers’ right, title and interest in, to and under the Acquired Seller Intellectual Property and Acquired Licensed IP.

NOW, THEREFORE, in consideration of the premises and the mutual covenants and the agreements set forth herein, in the Purchase Agreement and in the other Ancillary Documents, and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the Parties, intending to be legally bound, hereby agree as follows:

Section 1. Assignment of Acquired Seller Intellectual Property. Effective as of the Closing, the Sellers hereby irrevocably sell, transfer, assign, convey and deliver to the Designated Purchaser, free and clear of all Encumbrances of any and every kind, nature and description, other than Permitted Post-Closing Encumbrances, all of the Sellers’ right, title and interest in, to and under all of the Acquired Seller Intellectual Property, including (a) any and all non-registered Intellectual Property Rights contained therein, including but not limited to any and

all non-registered Intellectual Property Rights in and to the Technology, (b) all rights to sue for and recover and retain damages for present, past and future infringement, misappropriation or other violation thereof, (c) the Registered Intellectual Property set forth on Schedule 1 of the Notice of Designation of Alternative Purchaser (d) the exclusive right to apply for and maintain the Acquired Seller Intellectual Property, (e) all common law rights in and to the Acquired Seller Intellectual Property, and (f) all goodwill associated with the Acquired Seller Intellectual Property. Effective as of the Closing, the Designated Purchaser hereby purchases, accepts and acquires from the Sellers, as applicable, free and clear of any and all Encumbrances of any and every kind, nature and description, other than Permitted Post-Closing Encumbrances, all of the Sellers' right, title and interest in, to and under the Acquired Seller Intellectual Property.

Section 2. Assignment of Acquired Licensed IP. Effective as of the Closing, the Sellers hereby irrevocably transfer, assign, convey and deliver to the Designated Purchaser all of the Sellers' right, title and interest in, to and under all of the Acquired Licensed IP to the fullest extent assignable. Effective as of the Closing, the Designated Purchaser hereby accepts from the Sellers the transfer and assignment of the Acquired Licensed IP to the extent assignable.

Section 3. Recordation. The Sellers hereby authorize and request the Commissioner of Patents and Trademarks of the United States and the Office of the Register of Copyrights of the United States, and any official of any other jurisdiction or organization whose duty is to issue any applicable Intellectual Property or any legal equivalent thereof, to record and register the Designated Purchaser as the assignee and owner of all right, title and interest in, to and under the applicable Acquired Seller Intellectual Property.

Section 4. Further Assurances. Upon the request of the Designated Purchaser, the Sellers shall promptly execute any other documents and take any other actions reasonably required to give the Designated Purchaser the full benefit of this Agreement, the Transactions and the assignments set forth in Section 1, including (i) any such documents required to perfect and record such assignments in any applicable filing jurisdictions and (ii) any third party consents required to enable the assignment of the Acquired Licensed IP if such rights are not assignable.

Section 5. No Third Party Beneficiaries. This Agreement is for the sole and exclusive benefit of the Designated Purchaser and the Sellers and their respective successors and permitted assigns, and nothing herein, express or implied, is intended or shall be construed to confer upon any other Person any legal or equitable right, remedy, claim, reimbursement or cause of action of any nature whatsoever under or by reason of this Agreement.

Section 6. Successors and Assigns. This Agreement shall be binding upon and shall inure to the benefit of the Parties and their respective successors and assigns.

Section 7. Subject to Purchase Agreement. The scope, nature, and extent of the Acquired Seller Intellectual Property and Acquired Licensed IP are expressly set forth in the Purchase Agreement. Nothing contained in this Agreement shall itself change, amend, extend or alter (nor shall it be deemed or construed as changing, amending, extending or altering) the terms or conditions of the Purchase Agreement in any manner whatsoever. This Agreement does not create or establish liabilities or obligations not otherwise created or existing under or pursuant to

the Purchase Agreement. In the event of any inconsistency between the Purchase Agreement and this Agreement, the provisions of the Purchase Agreement shall govern and control. The Parties acknowledge and agree that the representations, warranties, covenants, agreements, conditions and indemnities contained in the Purchase Agreement will not be superseded hereby but will remain in full force and effect to the full extent provided therein.

Section 8. Governing Law. This Agreement, and all Actions (whether in contract, tort or statute) that may be based upon, arise out of or relate to this Agreement, or the negotiation, execution or performance of this Agreement, shall be governed by, and enforced in accordance with, the Laws of the State of Delaware, including its statutes of limitations, without giving effect to any borrowing statute or applicable principles of conflicts of law to the extent that the application of the laws (including statutes of limitation) of another jurisdiction (whether of the State of Delaware or any other jurisdiction) would be required thereby.

Section 9. Submission to Jurisdiction. Each Party irrevocably and unconditionally consents to submit to the exclusive jurisdiction of the Bankruptcy Court for any litigation arising out of or relating to this Agreement and the transactions contemplated thereby (and agrees not to commence any litigation relating thereto except in the Bankruptcy Court), and waives any objection to the laying of venue of any such litigation in the Bankruptcy Court. To the extent the Bankruptcy Court declines, or is otherwise unable to, exercise jurisdiction, then the Parties agree that the state or federal courts in the County of New Castle, State of Delaware, shall have jurisdiction.

Section 10. WAIVER OF JURY TRIAL. EACH PARTY IRREVOCABLY AND UNCONDITIONALLY WAIVES TO THE FULLEST EXTENT PERMITTED BY LAW ANY RIGHT IT MAY HAVE TO A TRIAL BY JURY WITH RESPECT TO ANY ACTION BASED UPON, ARISING OUT OF OR RELATING TO THIS AGREEMENT OR THE TRANSACTIONS CONTEMPLATED HEREBY OR BY THE PURCHASE AGREEMENT. EACH PARTY ACKNOWLEDGES AND CERTIFIES (I) THAT NO REPRESENTATIVE, AGENT OR ATTORNEY OF THE OTHER PARTY HAS REPRESENTED, EXPRESSLY OR OTHERWISE, THAT SUCH OTHER PARTY WOULD NOT, IN THE EVENT OF ANY ACTION OR PROCEEDING, SEEK TO ENFORCE THE FOREGOING WAIVER, (II) IT UNDERSTANDS AND HAS CONSIDERED THE IMPLICATIONS OF THIS WAIVER, (III) IT MAKES THIS WAIVER VOLUNTARILY AND (IV) IT HAS BEEN INDUCED TO ENTER INTO THIS AGREEMENT, THE PURCHASE AGREEMENT AND THE OTHER ANCILLARY DOCUMENTS AND THE TRANSACTIONS CONTEMPLATED HEREBY AND THEREBY, AMONG OTHER THINGS, THE MUTUAL WAIVERS AND CERTIFICATIONS SET FORTH IN THIS SECTION 9 AND IN SECTION 9.9(C) OF THE PURCHASE AGREEMENT.

Section 11. Absolute Assignment. The Parties intend that the assignments effected by this Agreement shall constitute absolute and unconditional assignments.

Section 12. Entire Agreement. This Agreement, the Purchase Agreement and the other Ancillary Documents contain and constitute the entire agreement of the Parties with respect

to the subject matter hereof and supersede all prior negotiations, agreements and understandings, whether written or oral, of the Parties.

Section 13. Amendment, Waiver and Termination. This Agreement may not be amended, modified or waived except by an instrument in writing signed on behalf of each Party.

Section 14. Counterparts. This Agreement may be executed simultaneously in one or more counterparts, and by different Parties in separate counterparts, each of which when executed will be deemed an original, but all of which taken together will constitute one and the same instrument.

IN WITNESS WHEREOF, the undersigned has caused this Agreement to be executed on their behalf as of the date first written above.

SELLERS:

ZYMERGEN INC.

By: Celeste Ferber
Name: Celeste Ferber
Title: President and SVP, Legal

**LODO THERAPEUTICS
CORPORATION**

By: Celeste Ferber
Name: Celeste Ferber
Title: President

ENEVOLV, INC.

By: Celeste Ferber
Name: Celeste Ferber
Title: President

GENESIS ACQUISITION SUB, LLC

By: Celeste Ferber
Name: Celeste Ferber
Title: President and SVP, Legal,
Zymergen Inc., Managing
member

[Signature Page to Intellectual Property Assignment Agreement]

IN WITNESS WHEREOF, the undersigned has caused this Agreement to be executed on their behalf as of the date first written above.

DESIGNATED PURCHASER:

ZYMERGEN ACQUISITION SUB, INC.

By: Mark Dmytruk
Name: Mark Dmytruk
Title: Chief Financial Officer

December 29, 2023

Via Email

Zymergen Inc.
5980 Horton Street, Suite 105
Emeryville, California 94608

Attention: Celeste Ferber

Re: Notice of Designation of Alternative Purchaser

To Whom it May Concern:

Reference is made to that certain Amended and Restated Asset Purchase Agreement, dated as of December 21, 2023 (as amended, the “**Agreement**”), by and among Zymergen Inc., a Delaware corporation, Lodo Therapeutics Corporation, a Delaware corporation, enEvolv, Inc., a Delaware corporation, Genesis Acquisition Sub LLC, a Delaware limited liability company, and Ginkgo Bioworks, Inc., a Delaware corporation (the “**Purchaser**”). Capitalized terms used herein but not defined have the meanings ascribed to them in the Agreement.

Pursuant to Section 1.9 of the Agreement, the Purchaser hereby designates Zymergen Acquisition Sub, Inc., a Delaware corporation and an Affiliate of the Purchaser, to (i) exercise the Purchaser’s right under Section 1.1 of the Agreement to purchase, acquire and accept at the Closing all of the Acquired Assets listed, described or otherwise identified on Schedule 1 hereto, together with all of the Purchaser’s other rights under the Agreement in respect thereof, (ii) assume all of the Assumed Liabilities under Section 1.3 of the Agreement with respect to such Acquired Assets on and after the Closing Date and (iii) otherwise honor the Purchaser’s obligations at the Closing as contemplated by Section 1.9 of the Agreement.

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Sincerely,

GINKGO BIOWORKS, INC.

By  _____
Name: Jason Kelly
Title: Chief Executive Officer

cc: Curtis S. Miller and Tarik J. Haskins, Morris, Nichols, Arsht & Tunnell LLP

[Signature Page to Designation of Alternative Purchaser]

PATENT
REEL: 069114 FRAME: 0353

Schedule 1

Acquired Assets

1. The Acquired Assets (including, for the avoidance of doubt, all of the Registered Intellectual Property set forth on Schedule 2), except for the following Contracts:
 - a. Drug Discovery Collaboration and License Agreement, dated as of April 20, 2018, by and between Lodo Therapeutics Corporation, Genentech, Inc. and F. Hoffmann-La Roche Ltd.
 - b. Master Contract Services Agreement, dated as of January 3, 2019, by and between Synlogic Operating Company, Inc. and enEvolv, Inc.
 - c. Asset Purchase Agreement, dated as of March 31, 2023, by and between Zymergen Inc. and Solvay USA Inc.

Schedule 2

Registered Intellectual Property

Patents Published:

Ownership	Attorney Ref	Country Code	Application Num	Filing Date	Type	Status	Publication Num	Publication Date	Title
enEvolv, Inc.	Z00302-401-CA	CA	CA 2920253	8/4/2014	Utility: National Phase	Published	CA 2920253 A1	2/5/2015	PROCESSES AND HOST CELLS FOR GENOME, PATHWAY, AND BIOMOLECULAR ENGINEERING
enEvolv, Inc.	Z00303-401-CA	CA	CA 3033372	2/7/2019	Utility: National Phase	Published	CA 3033372 A1	2/22/2018	CELL-FREE SENSOR SYSTEMS
enEvolv, Inc.	Z00304-401-CA	CA	CA 3033374	2/7/2019	Utility: National Phase	Published	CA 3033374 A1	2/22/2018	MOLECULE SENSOR SYSTEMS
Zymergen Inc.	ZYM009-IN-00	IN	IN 201817024262	6/29/2018	Utility: National Phase	Published	IN 201817024262	11/30/2018	MICROBIAL STRAIN IMPROVEMENT BY A HTP GENOMIC ENGINEERING PLATFORM
Zymergen Inc.	ZYM010-CA-01	CA	CA 3061984	6/6/2018	Utility: National Phase	Published	CA 3061984 A1	12/13/2018	A HTP GENOMIC ENGINEERING PLATFORM FOR IMPROVING FUNGAL STRAINS
Zymergen Inc.	ZYM018-CA-00	CA	CA 3064619	6/6/2018	Utility: National Phase	Published	CA 3064619 A1	12/13/2018	A HIGH-THROUGHPUT (HTP) GENOMIC ENGINEERING PLATFORM FOR IMPROVING SACCHAROPOLYSPORA SPINOSA
Zymergen Inc.	ZYM025-CA-00	CA	CA 3079750	4/20/2020	Utility: National Phase	Published	CA 3079750 A1	5/16/2019	OPTIMIZATION OF ORGANISMS FOR PERFORMANCE IN LARGER-SCALE CONDITIONS BASED ON PERFORMANCE IN SMALLER-SCALE CONDITIONS
enEvolv, Inc.	Z00303-401-EP	EP	EP 17842015.4	3/15/2019	Utility: National Phase	Published	EP 3497605	6/19/2019	CELL-FREE SENSOR SYSTEMS
enEvolv, Inc.	Z00303-401-US	US	16/325,649	2/14/2019	Utility: National Phase	Published	20190195864	6/27/2019	CELL-FREE SENSOR SYSTEMS
enEvolv, Inc.	Z00304-401-US	US	16/325,650	2/14/2019	Utility: National Phase	Allowed	20190204303	7/4/2019	MOLECULE SENSOR SYSTEMS
Zymergen Inc. AND Akron Polymer Systems, Inc.	ZYM024-CA-00	CA	CA 3078323	10/3/2018	Utility: National Phase	Published	CA 3078323 A1	8/15/2019	OPTICALLY TRANSPARENT POLYIMIDES
enEvolv, Inc.	Z00305-401-CA	CA	CA 3091145	2/15/2019	Utility: National Phase	Published	CA 3091145 A1	8/22/2019	SENSOR SYSTEMS
Zymergen Inc.	ZYM034-CA-00	CA	CA 3091228	3/20/2019	Utility: National Phase	Published	CA 3091228 A1	9/26/2019	A HTP PLATFORM FOR THE GENETIC ENGINEERING OF CHINESE HAMSTER OVARY CELLS
enEvolv, Inc.	Z00302-502-US	US	16/437,018	6/11/2019	Utility: Continuation	Allowed	20190309289	10/10/2019	PROCESSES AND HOST CELLS FOR GENOME, PATHWAY, AND BIOMOLECULAR ENGINEERING
Zymergen Inc.	ZYM041-CA-00	CA	CA 3100908	11/18/2020	Utility: National	Published	CA 3100908 A1	11/28/2019	SCALABLE, MOBILE, AND RECONFIGURABLE MODULES

					al Phase					FOR PROCESSING BIOLOGICAL AND CHEMICAL MATERIALS
Zymer gen Inc.	ZYM0 042-CA-00	CA	CA 3097071	6/6/2019	Utility: National Phase	Published	CA 3097071 A1	12/12/2019		MANIPULATION OF GENES INVOLVED IN SIGNAL TRANSDUCTION TO CONTROL FUNGAL MORPHOLOGY DURING FERMENTATION AND PRODUCTION
Zymer gen Inc.	ZYM0 010-CN-01	CN	CN 201880037 593.5	12/5/2019	Utility: National Phase	Published	CN 11071995 6 A	1/21/2020		A HTP GENOMIC ENGINEERING PLATFORM FOR IMPROVING FUNGAL STRAINS
Zymer gen Inc.	ZYM0 018-KR-00	KR	KR 10-2019-7038679	12/27/2019	Utility: National Phase	Published	KR 20200015 606 A	2/12/2020		A HIGH-THROUGHPUT (HTP) GENOMIC ENGINEERING PLATFORM FOR IMPROVING SACCHAROPOLYSPORA SPINOSA
Zymer gen Inc.	ZYM0 018-KR-01	KR	KR 10-2020-7000384	1/6/2020	Utility: National Phase	Published	KR 20200026 878 A	3/11/2020		A HTP GENOMIC ENGINEERING PLATFORM FOR IMPROVING FUNGAL STRAINS
Zymer gen Inc.	ZYM0 021-KR-00	KR	10-2020-7000506	1/7/2020	Utility: National Phase	Published	20200026 881	3/11/2020		PROMOTERS FROM CORYNEBACTERIUM GLUTAMICUM AND USES THEREOF IN REGULATING ANCILLARY GENE EXPRESSION
Zymer gen Inc.	ZYM0 018-CN-00	CN	CN 201880047 656.5	1/31/2020	Utility: National Phase	Published	CN 11091442 5 A	3/24/2020		A HIGH-THROUGHPUT (HTP) GENOMIC ENGINEERING PLATFORM FOR IMPROVING SACCHAROPOLYSPORA SPINOSA
Zymer gen Inc.	ZYM0 063-CA-00	CA	CA 3108784	8/6/2019	Utility: National Phase	Published	CA 3108784 A1	4/2/2020		OPTICALLY TRANSPARENT POLYIMIDES
Zymer gen Inc.	ZYM0 010-EP-01	EP	EP 18749606.2	1/3/2020	Utility: National Phase	Published	EP 3635112 A2	4/15/2020		A HTP GENOMIC ENGINEERING PLATFORM FOR IMPROVING FUNGAL STRAINS
Zymer gen Inc.	ZYM0 018-EP-00	EP	EP 18734409.8	1/3/2020	Utility: National Phase	Published	EP 3635110 A2	4/15/2020		A HIGH-THROUGHPUT (HTP) GENOMIC ENGINEERING PLATFORM FOR IMPROVING SACCHAROPOLYSPORA SPINOSA
Zymer gen Inc.	ZYM0 018-US-00	US	16/620,203	12/6/2019	Utility: National Phase	Published	20200115 705	4/16/2020		A HIGH-THROUGHPUT (HTP) GENOMIC ENGINEERING PLATFORM FOR IMPROVING SACCHAROPOLYSPORA SPINOSA
Zymer gen Inc.	ZYM0 004-US-01	US	16/722,658	12/20/2019	Utility: Continuation	Published	20200123 529	4/23/2020		METHODS FOR GENERATING A GLUCOSE PERMEASE LIBRARY AND USES THEREOF
Zymer gen Inc.	ZYM0 005-US-01	US	16/722,647	12/20/2019	Utility: Continuation	Published	20200123 496	4/23/2020		METHODS FOR GENERATING A BACTERIAL HEMOGLOBIN LIBRARY AND USES THEREOF
Zymer gen Inc. AND Akron Polymer Systems, Inc.	ZYM0 024-KR-00	KR	KR 10-2020-7011656	4/22/2020	Utility: National Phase	Published	KR 20200052 376 A	5/14/2020		OPTICALLY TRANSPARENT POLYIMIDES
Zymer gen Inc.	ZYM0 020-US-00	US	16/619,809	12/5/2019	Utility: National Phase	Published	20200168 291	5/28/2020		PRIORITIZATION OF GENETIC MODIFICATIONS TO INCREASE THROUGHPUT OF PHENOTYPIC OPTIMIZATION
Zymer gen Inc.	ZYM0 100-CA-01	CA	CA 3124825	12/30/2019	Utility: National Phase	Published	CA 3124825 A1	7/9/2020		POLYMER COMPOSITIONS COMPRISING COMPOUNDS DERIVED FROM BIOLOGY
Zymer gen Inc.	ZYM0 025-KR-00	KR	KR 10-2020-7016315	6/5/2020	Utility: National Phase	Published	KR 20200084 341 A	7/10/2020		OPTIMIZATION OF ORGANISMS FOR PERFORMANCE IN LARGER-SCALE CONDITIONS BASED ON PERFORMANCE IN SMALLER-SCALE CONDITIONS
Zymer gen Inc.	ZYM0 021-US-00	US	16/620,188	12/6/2019	Utility: National Phase	Published	20200239 897	7/30/2020		PROMOTERS FROM CORYNEBACTERIUM GLUTAMICUM AND USES

					al Phase					THEREOF IN REGULATING ANCILLARY GENE EXPRESSION
Zymer gen Inc.	ZYM0108-CA-00	CA	CA 3127721	1/21/2020	Utility: National Phase	Publi shed	CA 3127721 A1	7/30/2020		ELASTOMERIC ADHESIVES COMPRISING BIO-DERIVED COMPOUNDS
Zymer gen Inc. AND Akron Polymer Systems, Inc.	ZYM0024-US-00	US	16/652,541	3/31/2020	Utility: National Phase	Publi shed	20200239 635	7/30/2020		OPTICALLY TRANSPARENT POLYIMIDES
Zymer gen Inc. AND Akron Polymer Systems, Inc.	ZYM0024-CN-00	CN	CN 201880064 997.3	4/3/2020	Utility: National Phase	Publi shed	CN 11147985 3A	7/31/2020		OPTICALLY TRANSPARENT POLYIMIDES
Zymer gen Inc. AND Akron Polymer Systems, Inc.	ZYM0024-EP-00	EP	EP 18904868.9	3/31/2020	Utility: National Phase	Publi shed	EP 3692091 A2	8/12/2020		OPTICALLY TRANSPARENT POLYIMIDES
Zymer gen Inc.	ZYM0018-JP-00	JP	JP 2019-567368	12/5/2019	Utility: National Phase	Allo wed	JP 2020-524493	8/20/2020		A HIGH-THROUGHPUT (HTP) GENOMIC ENGINEERING PLATFORM FOR IMPROVING SACCHAROPOLYSPORA SPINOSA
Zymer gen Inc.	ZYM0010-HK-01	HK	HK 620200045 54.5	3/19/2020	Utility: National Phase	Publi shed	HK 40014774 A	8/21/2020		A HTP GENOMIC ENGINEERING PLATFORM FOR IMPROVING FUNGAL STRAINS
Zymer gen Inc.	ZYM0025-EP-00	EP	EP 18811428.4	6/9/2020	Utility: National Phase	Publi shed	EP 3707234 A1	9/16/2020		OPTIMIZATION OF ORGANISMS FOR PERFORMANCE IN LARGER-SCALE CONDITIONS BASED ON PERFORMANCE IN SMALLER-SCALE CONDITIONS
Zymer gen Inc.	ZYM0018-HK-00	HK	HK 620200069 85.9	5/7/2020	Utility: Foreign	Publi shed	HK 40017177 A	9/18/2020		A HIGH-THROUGHPUT (HTP) GENOMIC ENGINEERING PLATFORM FOR IMPROVING SACCHAROPOLYSPORA SPINOSA
Zymer gen Inc.	ZYM0003-US-02	US	16/946,571	6/26/2020	Utility: Divisional	Allo wed	20200325 433	10/15/2020		APPARATUSES AND METHODS FOR ELECTROPORATION
enEvolv, Inc.	Z00305-401-KR	KR	KR 10-2020-7025821	9/7/2020	Utility: National Phase	Publi shed	KR 20200121 824 A	10/26/2020		SENSOR SYSTEMS
Zymer gen Inc.	ZYM0031-KR-00	KR	KR 10-2020-7025001	8/28/2020	Utility: National Phase	Publi shed	KR 20200123 144 A	10/28/2020		METHOD FOR CREATING A GENOMIC LIBRARY ENRICHED FOR BACILLUS AND IDENTIFICATION OF NOVEL CRY TOXINS
Zymer gen Inc.	ZYM0025-CN-00	CN	CN 201880072 540.7	5/8/2020	Utility: National Phase	Publi shed	CN 11188633 0 A	11/3/2020		OPTIMIZATION OF ORGANISMS FOR PERFORMANCE IN LARGER-SCALE CONDITIONS BASED ON PERFORMANCE IN SMALLER-SCALE CONDITIONS
Zymer gen Inc.	ZYM0034-CN-00	CN	CN 201980019 507.2	9/15/2020	Utility: National Phase	Publi shed	CN 11190254 0 A	11/6/2020		A HTP PLATFORM FOR THE GENETIC ENGINEERING OF CHINESE HAMSTER OVARY CELLS
Zymer gen Inc.	ZYM0060-CA-01	CA	CA 3134318	5/5/2020	Utility: National Phase	Publi shed	CA 3134318 A1	11/12/2020		DOWNSCALING PARAMETERS TO DESIGN EXPERIMENTS AND PLATE MODELS FOR MICRO-ORGANISMS AT SMALL SCALE TO

									IMPROVE PREDICTION OF PERFORMANCE AT LARGER SCALE
Zymer gen Inc.	ZYM0 025-US-00	US	16/762,022	5/6/2020	Utility: National Phase	Published	20200357486	11/12/2020	OPTIMIZATION OF ORGANISMS FOR PERFORMANCE IN LARGER SCALE CONDITIONS BASED ON PERFORMANCE IN SMALLER SCALE CONDITIONS
Zymer gen Inc.	ZYM0 034-KR-00	KR	KR 10-2020-7026356	9/11/2020	Utility: National Phase	Published	KR 1020200132870 A	11/25/2020	A HTP PLATFORM FOR THE GENETIC ENGINEERING OF CHINESE HAMSTER OVARY CELLS
enEvolv, Inc.	Z0030 5-401-CN	CN	CN 2019800260175	10/15/2020	Utility: National Phase	Published	CN 112088212 A	12/15/2020	SENSOR SYSTEMS
Zymer gen Inc.	ZYM0 041-US-00	US	16/616,924	11/25/2019	Utility: National Phase	Published	20200393477	12/17/2020	SCALABLE, MOBILE, AND RECONFIGURABLE MODULES FOR PROCESSING BIOLOGICAL AND CHEMICAL MATERIALS
Zymer gen Inc. AND Akron Polymer Systems, Inc.	ZYM0 024-JP-00	JP	JP 2020-519692	4/3/2020	Utility: National Phase	Published	JP 2020536993 A	12/17/2020	OPTICALLY TRANSPARENT POLYIMIDES
enEvolv, Inc.	Z0030 5-401-EP	EP	EP 19754205.3	9/15/2020	Utility: National Phase	Published	EP 3752596	12/23/2020	SENSOR SYSTEMS
enEvolv, Inc.	Z0030 5-401-US	US	16/970,132	8/14/2020	Utility: National Phase	Published	20200399632	12/24/2020	SENSOR SYSTEMS
Zymer gen Inc.	ZYM0 031-EP-00	EP	EP 19711459.8	9/17/2020	Utility: National Phase	Published	EP 3755797 A1	12/30/2020	METHOD FOR CREATING A GENOMIC LIBRARY ENRICHED FOR BACILLUS AND IDENTIFICATION OF NOVEL CRY TOXINS
Zymer gen Inc.	ZYM0 042-CN-00	CN	CN 201980033430.4	11/18/2020	Utility: National Phase	Published	CN 112166180 A	1/1/2021	MANIPULATION OF GENES INVOLVED IN SIGNAL TRANSDUCTION TO CONTROL FUNGAL MORPHOLOGY DURING FERMENTATION AND PRODUCTION
Zymer gen Inc.	ZYM0 032-US-02	US	16/977,778	9/2/2020	Utility: Continuation	Published	20210015109	1/21/2021	INSECTICIDAL PROTEIN DISCOVERY PLATFORM AND INSECTICIDAL PROTEINS DISCOVERED THEREFROM
Zymer gen Inc.	ZYM0 034-EP-00	EP	EP 19770957.9	10/1/2020	Utility: National Phase	Published	EP 3768844 A1	1/27/2021	A HTP PLATFORM FOR THE GENETIC ENGINEERING OF CHINESE HAMSTER OVARY CELLS
Zymer gen Inc.	ZYM0 025-JP-00	JP	JP 2020-524820	5/7/2020	Utility: National Phase	Published	JP 2021502084 A	1/28/2021	OPTIMIZATION OF ORGANISMS FOR PERFORMANCE IN LARGER-SCALE CONDITIONS BASED ON PERFORMANCE IN SMALLER-SCALE CONDITIONS
Zymer gen Inc.	ZYM0 041-KR-00	KR	KR 10-2020-7037270	12/23/2020	Utility: National Phase	Published	KR 1020210012011 A	2/2/2021	SCALABLE, MOBILE, AND RECONFIGURABLE MODULES FOR PROCESSING BIOLOGICAL AND CHEMICAL MATERIALS
Zymer gen Inc.	ZYM0 033-US-01	US	16/979,788	9/10/2020	Utility: National Phase	Published	20210040257	2/11/2021	SURFACE FORMULATIONS COMPRISING PHENOLS
Zymer gen Inc.	ZYM0 042-KR-00	KR	KR 10-2020-7032760	11/12/2020	Utility: National Phase	Published	KR 1020210018219 A	2/17/2021	MANIPULATION OF GENES INVOLVED IN SIGNAL TRANSDUCTION TO CONTROL FUNGAL MORPHOLOGY DURING FERMENTATION AND PRODUCTION

Zymer gen Inc.	ZYM0 041-CN-00	CN	CN 201980045 564.8	1/6/20 21	Utility: National Phase	Publi shed	CN 11238481 0 A	2/19/202 1	SCALABLE, MOBILE, AND RECONFIGURABLE MODULES FOR PROCESSING BIOLOGICAL AND CHEMICAL MATERIALS
Zymer gen Inc. AND Akron Polymer Systems, Inc.	ZYM0 024-HK-00	HK	HK 620200214 91.9	12/3/2 020	Utility: Foreign n	Publi shed	HK 40031608 A	3/12/202 1	OPTICALLY TRANSPARENT POLYIMIDES
Zymer gen Inc.	ZYM0 063-KR-00	KR	KR 10-2021-7005850	2/25/2 021	Utility: National Phase	Publi shed	KR 10202100 30472 A	3/17/202 1	OPTICALLY TRANSPARENT POLYIMIDES
Zymer gen Inc.	ZYM0 025-HK-00	HK	HK 620200218 29.0	12/10/ 2020	Utility: Foreign n	Publi shed	HK 40032584 A	3/26/202 1	OPTIMIZATION OF ORGANISMS FOR PERFORMANCE IN LARGER-SCALE CONDITIONS BASED ON PERFORMANCE IN SMALLER-SCALE CONDITIONS
Zymer gen Inc.	ZYM0 041-EP-00	EP	EP 19806865.2	11/17/ 2020	Utility: National Phase	Publi shed	EP 3803418 A1	4/14/202 1	SCALABLE, MOBILE, AND RECONFIGURABLE MODULES FOR PROCESSING BIOLOGICAL AND CHEMICAL MATERIALS
Zymer gen Inc.	ZYM0 111-US-00	US	17/072,449	10/16/ 2020	Utility: Non-Provisi onal	Publi shed	20210115 500	4/22/202 1	GENOTYPING EDITED MICROBIAL STRAINS
Zymer gen Inc.	ZYM0 063-CN-00	CN	CN 201980054 721.1	2/20/2 021	Utility: National Phase	Publi shed	CN 11270322 0 A	4/23/202 1	OPTICALLY TRANSPARENT POLYIMIDES
Zymer gen Inc.	ZYM0 042-EP-00	EP	EP 19815719.0	12/10/ 2020	Utility: National Phase	Publi shed	EP 3810750 A1	4/28/202 1	MANIPULATION OF GENES INVOLVED IN SIGNAL TRANSDUCTION TO CONTROL FUNGAL MORPHOLOGY DURING FERMENTATION AND PRODUCTION
Zymer gen Inc.	ZYM0 044-EP-00	EP	EP 19830607.8	1/4/20 21	Utility: National Phase	Publi shed	EP 3818174 A1	5/12/202 1	LIQUID BASED SELECTION AND CELL ISOLATION
Zymer gen Inc.	ZYM0 042-BR-00	BR	BR 112020024 8398	12/4/2 020	Utility: National Phase	Publi shed	BR 11202002 4839 A2	5/18/202 1	MANIPULATION OF GENES INVOLVED IN SIGNAL TRANSDUCTION TO CONTROL FUNGAL MORPHOLOGY DURING FERMENTATION AND PRODUCTION
enEvolv, Inc.	Z0030 5-401-JP	JP	JP 2020-566202	8/17/2 020	Utility: National Phase	Publi shed	JP 20215142 02 A	6/10/202 1	SENSOR SYSTEMS
Zymer gen Inc.	ZYM0 063-EP-00	EP	EP 19867695.9	2/15/2 021	Utility: National Phase	Publi shed	EP 3833708 A2	6/16/202 1	OPTICALLY TRANSPARENT POLYIMIDES
Zymer gen Inc AND The Regents of the University of California (UCLA)	ZYM0 040-US-00	US	17/250,094	11/24/ 2020	Utility: National Phase	Publi shed	20210206 802	7/8/2021	MONOTHIOETHER CROSSLINKERS IN POLYMERS AND APPLICATIONS THEREOF
Zymer gen Inc.	ZYM0 050-US-00	US	17/267,648	2/10/2 021	Utility: National Phase	Publi shed	20210225 455	7/22/202 1	BIOREACHABLE PREDICTION TOOL WITH BIOLOGICAL SEQUENCE SELECTION

Zymer gen Inc.	ZYM0 034-HK-00	HK	HK 620210304 28.8	5/6/20 21	Utility: Foreign	Publi shed	HK 40040080 A	7/23/202 1	A HTP PLATFORM FOR THE GENETIC ENGINEERING OF CHINESE HAMSTER OVARY CELLS
Zymer gen Inc.	ZYM0 034-JP-00	JP	JP 2020-550175	9/17/2 020	Utility: Nation al Phase	Publi shed	JP 20215181 28	8/2/2021	A HTP PLATFORM FOR THE GENETIC ENGINEERING OF CHINESE HAMSTER OVARY CELLS
Zymer gen Inc.	ZYM0 127-US-01	US	17/175,120	2/12/2 021	Utility: Non-Provisi onal	Publi shed	20210256 394	8/19/202 1	METHODS AND SYSTEMS FOR THE OPTIMIZATION OF A BIOSYNTHETIC PATHWAY
Zymer gen Inc.	ZYM0 043-US-00	US	17/250,186	12/10/ 2020	Utility: Nation al Phase	Publi shed	20210261 721	8/26/202 1	USE OF HETEROCYCLIC AMINES CONTAINING PRIMARY OR SECONDARY AMINES AS A POLYMER CATALYST OR HARDENER
Zymer gen Inc.	ZYM0 100-CN-01	CN	CN 201980090 4204	7/27/2 021	Utility: Nation al Phase	Publi shed	CN 11336599 1 A	9/7/2021	POLYMER COMPOSITIONS COMPRISING COMPOUNDS DERIVED FROM BIOLOGY
Zymer gen Inc.	ZYM0 031-US-02	US	17/321,794	5/17/2 021	Utility: Contin uation	Publi shed	20210277 390	9/9/2021	METHOD FOR CREATING A GENOMIC LIBRARY ENRICHED FOR BACILLUS AND IDENTIFICATION OF NOVEL CRY TOXINS
Zymer gen Inc.	ZYM0 032-US-03	US	17/328,883	5/24/2 021	Utility: Contin uation	Publi shed	20210277 414	9/9/2021	INSECTICIDAL PROTEIN DISCOVERY PLATFORM AND INSECTICIDAL PROTEINS DISCOVERED THEREFROM
Zymer gen Inc.	ZYM0 041-JP-00	JP	JP 2020-565367	11/20/ 2020	Utility: Nation al Phase	Publi shed	JP 20215250 81 A	9/24/202 1	SCALABLE, MOBILE, AND RECONFIGURABLE MODULES FOR PROCESSING BIOLOGICAL AND CHEMICAL MATERIALS
Zymer gen Inc.	ZYM0 042-HK-00	HK	HK 620210340 92.8	6/29/2 021	Utility: Foreign	Publi shed	HK 40044824 A	10/8/202 1	MANIPULATION OF GENES INVOLVED IN SIGNAL TRANSDUCTION TO CONTROL FUNGAL MORPHOLOGY DURING FERMENTATION AND PRODUCTION
Zymer gen Inc.	ZYM0 042-JP-00	JP	JP 2020-567817	12/4/2 020	Utility: Nation al Phase	Publi shed	JP 2021-526799	10/11/20 21	MANIPULATION OF GENES INVOLVED IN SIGNAL TRANSDUCTION TO CONTROL FUNGAL MORPHOLOGY DURING FERMENTATION AND PRODUCTION
Zymer gen Inc.	ZYM0 063-US-00	US	17/250,589	2/5/20 21	Utility: Nation al Phase	Publi shed	20210317 269	10/14/20 21	OPTICALLY TRANSPARENT POLYIMIDES
Zymer gen Inc.	ZYM0 053-US-01	US	17/355,349	6/23/2 021	Utility: Contin uation	Publi shed	20210324 378	10/21/20 21	MULTIPLICED DETERMINISTIC ASSEMBLY OF DNA LIBRARIES
Zymer gen Inc.	ZYM0 100-EP-01	EP	EP 19907519.3	7/2/20 21	Utility: Nation al Phase	Publi shed	EP 3906236 A1	11/10/20 21	POLYMER COMPOSITIONS COMPRISING COMPOUNDS DERIVED FROM BIOLOGY
Zymer gen Inc.	ZYM0 041-HK-00	HK	HK 620210367 74.9	8/12/2 021	Utility: Foreign	Publi shed	HK 40047079 A	11/12/20 21	SCALABLE, MOBILE, AND RECONFIGURABLE MODULES FOR PROCESSING BIOLOGICAL AND CHEMICAL MATERIALS
Zymer gen Inc.	ZYM0 108-EP-00	EP	EP 20744964.6	8/2/20 21	Utility: Nation al Phase	Publi shed	EP 3914664 A1	12/1/202 1	ELASTOMERIC ADHESIVES COMPRISING BIO-DERIVED COMPOUNDS
Zymer gen Inc.	ZYM0 063-JP-00	JP	JP 2021-506455	2/5/20 21	Utility: Nation al Phase	Publi shed	JP 20215332 37 A	12/2/202 1	OPTICALLY TRANSPARENT POLYIMIDES
Zymer gen Inc.	ZYM0 013-US-01	US	17/392,366	8/3/20 21	Utility: Divisio nal	Publi shed	20210371 856	12/2/202 1	MODULAR UNIVERSAL PLASMID DESIGN STRATEGY FOR THE ASSEMBLY AND EDITING OF MULTIPLE DNA CONSTRUCTS FOR MULTIPLE HOSTS
Zymer gen Inc.	ZYM0 060-CN-01	CN	CN 202080033 832.7	11/5/2 021	Utility: Nation	Publi shed	CN 11379588 5 A	12/14/20 21	DOWNSCALING PARAMETERS TO DESIGN EXPERIMENTS AND PLATE MODELS FOR MICRO-

					al Phase				ORGANISMS AT SMALL SCALE TO IMPROVE PREDICTION OF PERFORMANCE AT LARGER SCALE
Zymer gen Inc.	ZYM0 144-EP-01	EP	EP 21754454.3	9/8/2022	Utility: National Phase	Publi shed	EP 4103580	12/21/2021	METAGENOMIC LIBRARY AND NATURAL PRODUCT DISCOVERY PLATFORM
Zymer gen Inc.	ZYM0 063-HK-00	HK	HK 62021041059.8	10/22/2021	Utility: Foreign n	Publi shed	HK 40051071A	12/31/2021	OPTICALLY TRANSPARENT POLYIMIDES
Zymer gen Inc.	ZYM0 060-KR-01	KR	KR 10-2021-7036504	11/8/2021	Utility: National Phase	Publi shed	KR 10-2022-0006066A	1/14/2022	DOWNSCALING PARAMETERS TO DESIGN EXPERIMENTS AND PLATE MODELS FOR MICRO-ORGANISMS AT SMALL SCALE TO IMPROVE PREDICTION OF PERFORMANCE AT LARGER SCALE
Zymer gen Inc.	ZS036 2-101-JP	JP	JP 2020-115182	7/2/2020	Utility: Foreign n	Publi shed	JP 2022012975 A	1/18/2022	METHOD FOR PRODUCING LONG OPTICAL FILM CONTAINING POLYIMIDE RESIN
Zymer gen Inc.	ZS036 0-102-JP	JP	JP 2021-013621	1/29/2021	Utility: Foreign n	Publi shed	JP 2022013624 A	1/18/2022	OPTICAL FILM
Zymer gen Inc.	ZS036 1-102-JP	JP	JP 2021-013622	1/29/2021	Utility: Foreign n	Publi shed	JP 2022013625 A	1/18/2022	OPTICAL FILM
Kent State University AND Zymer gen Inc.	ZYM0 048-US-00	US	17/299,777	6/3/2021	Utility: National Phase	Allo wed	20220025267	1/27/2022	BIOREACHABLE CHIRAL DOPANTS FOR LIQUID CRYSTAL APPLICATIONS
Zymer gen Inc.	ZYM0 046-US-00	US	17/297,371	5/26/2021	Utility: National Phase	Publi shed	20220033862	2/3/2022	ENGINEERED BIOSYNTHETIC PATHWAYS FOR PRODUCTION OF 2-OXOADIPATE BY FERMENTATION
Zymer gen Inc.	ZYM0 047-US-00	US	17/297,383	5/26/2021	Utility: National Phase	Publi shed	20220033800	2/3/2022	ENGINEERED BIOSYNTHETIC PATHWAYS FOR PRODUCTION OF 1,5-DIAMINOPENTANE BY FERMENTATION
Zymer gen Inc.	ZS036 3-101-JP	JP	JP 2020-115183	7/2/2020	Utility: Foreign n	Publi shed	JP 2022022728 A	2/7/2022	METHOD FOR PRODUCING LONG OPTICAL FILM CONTAINING POLYIMIDE RESIN
Zymer gen Inc.	ZYM0 125-TW-01	TW	TW 109134629	10/6/2020	Utility: Foreign n	Publi shed	TW 202206498 A	2/16/2022	PROCESS FOR POLYIMIDE SYNTHESIS AND POLYIMIDES MADE THEREFROM
Zymer gen Inc.	ZS036 1-401-TW	TW	TW 110124206	7/1/2021	Utility: Foreign n	Publi shed	TW 202206518 A	2/16/2022	OPTICAL FILM
Zymer gen Inc.	ZYM0 100-JP-01	JP	JP 2021-538272	6/29/2021	Utility: National Phase	Publi shed	JP 2022515665 A	2/21/2022	POLYMER COMPOSITIONS COMPRISING COMPOUNDS DERIVED FROM BIOLOGY
Zymer gen Inc.	ZS036 0-401-TW	TW	TW 110124204	7/1/2021	Utility: Foreign n	Publi shed	TW 202208512 A	3/1/2022	OPTICAL FILM
Zymer gen Inc.	ZYM0 108-JP-00	JP	JP 2021-542502	7/21/2021	Utility: National Phase	Publi shed	2022517851	3/10/2022	ELASTOMERIC ADHESIVES COMPRISING BIO-DERIVED COMPOUNDS
Zymer gen Inc.	ZYM0 002-US-01	US	17/476,697	9/16/2021	Utility: Contin uation	Publi shed	20220076177	3/10/2022	MICROBIAL STRAIN DESIGN SYSTEM AND METHODS FOR IMPROVED LARGE-SCALE PRODUCTION OF ENGINEERED NUCLEOTIDE SEQUENCES
Zymer gen Inc.	ZYM0 060-EP-01	EP	EP 20802419.0	12/2/2021	Utility: National Phase	Publi shed	EP 3966822A1	3/16/2022	DOWNSCALING PARAMETERS TO DESIGN EXPERIMENTS AND PLATE MODELS FOR MICRO-ORGANISMS AT SMALL SCALE TO IMPROVE PREDICTION OF PERFORMANCE AT LARGER SCALE

Zymer gen Inc.	ZYM0100-US-01	US	17/418,165	6/24/2021	Utility: National Phase	Published	20220098177	3/31/2022	POLYMER COMPOSITIONS COMPRISING COMPOUNDS DERIVED FROM BIOLOGY
Zymer gen Inc.	ZYM0108-US-00	US	17/424,082	7/19/2021	Utility: National Phase	Published	20220098457	3/31/2022	ELASTOMERIC ADHESIVES COMPRISING BIO-DERIVED COMPOUNDS
Zymer gen Inc.	ZS0362-401-TW	TW	TW 110124208	7/1/2021	Utility: Foreign	Published	TW 202212418 A	4/1/2022	METHOD FOR PRODUCING LONG OPTICAL FILM CONTAINING POLYIMIDE RESIN
Zymer gen Inc.	ZS0363-401-TW	TW	TW 110124209	7/1/2021	Utility: Foreign	Published	TW 202212509 A	4/1/2022	METHOD FOR PRODUCING LONG OPTICAL FILM CONTAINING POLYIMIDE RESIN
Zymer gen Inc.	ZYM0152-TW-01	TW	TW 110130674	8/19/2021	Utility: Foreign	Published	TW 202214841 A	4/16/2022	ENGINEERED BIOSYNTHETIC PATHWAY FOR PRODUCTION OF 4-AMINOPHENYLETHYLAMINE BY FERMENTATION
Zymer gen Inc.	ZYM010-US-04	US	17/584,950	1/26/2022	Utility: Continuation	Published	20220145288	5/12/2022	HTP GENOMIC ENGINEERING PLATFORM FOR IMPROVING FUNGAL STRAINS
Zymer gen Inc.	ZYM0146-TW-01	TW	TW 110129803	8/12/2021	Utility: Foreign	Published	TW 202219218	5/16/2022	CATECHOL MODIFIERS FOR EPOXY ADHESIVES
Zymer gen Inc.	ZYM0100-HK-01	HK	HK 62022049269.3	3/3/2022	Utility: Foreign	Published	HK 40060621 A	5/20/2022	POLYMER COMPOSITIONS COMPRISING COMPOUNDS DERIVED FROM BIOLOGY
Zymer gen Inc.	ZYM0106-US-01	US	17/442,090	9/22/2021	Utility: National Phase	Published	20220162655	5/26/2022	ENGINEERED BIOSYNTHETIC PATHWAYS FOR PRODUCTION OF L-HOMOCYSTEINE BY FERMENTATION
Zymer gen Inc.	ZYM0166-WO-01	WO	PCT/US21/73002	12/17/2021	Utility: PCT	Published	2022140749	6/30/2022	DECARBOXYLATION OF AMINO ACIDS
Zymer gen Inc.	ZYM0060-JP-01	JP	JP 2021565928	11/5/2021	Utility: National Phase	Published	JP 2022-531464	7/6/2022	DOWNSCALING PARAMETERS TO DESIGN EXPERIMENTS AND PLATE MODELS FOR MICRO-ORGANISMS AT SMALL SCALE TO IMPROVE PREDICTION OF PERFORMANCE AT LARGER SCALE
Zymer gen Inc.	ZYM0060-HK-01	HK	HK 62022054063.2	5/26/2022	Utility: Foreign	Published	HK 40065101 A	7/15/2022	DOWNSCALING PARAMETERS TO DESIGN EXPERIMENTS AND PLATE MODELS FOR MICRO-ORGANISMS AT SMALL SCALE TO IMPROVE PREDICTION OF PERFORMANCE AT LARGER SCALE
Zymer gen Inc.	ZYM0015-US-01	US	17/457,776	12/6/2021	Utility: Continuation	Published	20220230711	7/21/2022	MICROBIAL ENGINEERING METHODS AND SYSTEMS FOR OPTIMIZING MICROBE FITNESS
Zymer gen Inc.	ZS0364-101-JP	JP	JP 2021-013623	1/29/2021	Utility: Foreign	Published	JP 2022-117108	8/10/2022	POLYIMIDE-BASED RESIN
Zymer gen Inc.	ZS0365-101-JP	JP	JP 2021-013624	1/29/2021	Utility: Foreign	Published	JP 2022117109	8/10/2022	LAMINATED FILM
Zymer gen Inc.	ZS0366-101-JP	JP	JP 2021-013625	1/29/2021	Utility: Foreign	Published	JP 2022117110	8/10/2022	AN OPTICAL FILM AND A FLEXIBLE DISPLAY DEVICE INCLUDING THE OPTICAL FILM
Zymer gen Inc.	ZYM0042-US-02	US	17/699,827	3/21/2022	Utility: Continuation	Published	20220259607	8/18/2022	MANIPULATION OF GENES INVOLVED IN SIGNAL TRANSDUCTION TO CONTROL FUNGAL MORPHOLOGY DURING FERMENTATION AND PRODUCTION
Lodo Therapeutics Corporation	Z00312-301-WO	WO	PCT/US22/17263	2/22/2022	Utility: PCT	Published	2022178403	8/25/2022	HEXAPEPTIDE COMPOUNDS AND METHODS OF USING THE SAME
Zymer gen Inc.	ZYM0009-US-15	US	17/746,359	5/17/2022	Utility: Continuation	Published	20220275361	9/1/2022	HTP GENOMIC ENGINEERING PLATFORM
Zymer gen Inc.	ZYM0144-IL-01	IL	294909	7/20/2022	Utility: National	Published	294909	9/1/2022	METAGENOMIC LIBRARY AND NATURAL PRODUCT DISCOVERY PLATFORM

					al Phase					
Zymer gen Inc.	ZYM0 057-US-01	US	17/632,497	2/2/2022	Utility: National Phase	Publi shed	20220282265	9/8/2022	ENGINEERED BIOSYNTHETIC PATHWAYS FOR PRODUCTION OF 3-AMINO-4-HYDROXYBENZOIC ACID BY FERMENTATION	
Zymer gen Inc. AND Sumitomo Chemical Co. Ltd.	ZYM0 172-WO-01	WO	PCT/US22/70866	2/28/2022	Utility: PCT	Publi shed	2022187797	9/9/2022	OPTICALLY TRANSPARENT POLYAMIDE-IMIDES	
Zymer gen Inc.	ZYM0 174-US-01	US	17/655,306	3/17/2022	Utility: Non-Provisi onal	Publi shed	20220298303	9/22/2022	POWDER COMPOSITION COMPRISING POLYIMIDE PARTICLES, THREE-DIMENSIONAL POLYIMDE-BASED BODY, AND METHOD OF FORMING THE BODY	
Zymer gen Inc.	ZYM0 060-US-01	US	17/608,871	11/4/2021	Utility: National Phase	Publi shed	20220328128	10/13/2022	DOWNSCALING PARAMETERS TO DESIGN EXPERIMENTS AND PLATE MODELS FOR MICRO-ORGANISMS AT SMALL SCALE TO IMPROVE PREDICTION OF PERFORMANCE AT LARGER SCALE	
Zymer gen Inc.	ZYM0 001-US-01	US	17/704,917	3/25/2022	Utility: Divisio nal	Publi shed	20220325291	10/13/2022	PROMOTERS FROM CORYNEBACTERIUM GLUTAMICUM	
Zymer gen Inc.	ZS036 5-401-TW	TW	TW 111103704	1/27/2022	Utility: Foreign	Publi shed	202239612	10/16/2022	LAMINATED FILM	
Zymer gen Inc.	ZS036 6-401-TW	TW	TW 111103709	1/27/2022	Utility: Foreign	Publi shed	202239818	10/16/2022	AN OPTICAL FILM AND A FLEXIBLE DISPLAY DEVICE INCLUDING THE OPTICAL FILM	
Zymer gen Inc.	ZS036 4-401-TW	TW	TW 111103695	1/27/2022	Utility: Foreign	Publi shed	202242000	11/1/2022	POLYIMIDE-BASED RESIN	
Zymer gen Inc.	ZYM0 116-US-01	US	17/622,619	12/23/2021	Utility: National Phase	Publi shed	20220356497	11/10/2022	COMPOSITIONS AND METHODS FOR SYNTHESIS OF TERPENOID	
Zymer gen Inc.	ZYM0 144-CN-01	CN	CN 202180023963.1	9/23/2022	Utility: National Phase	Publi shed	CN 115349128 A	11/15/2022	METAGENOMIC LIBRARY AND NATURAL PRODUCT DISCOVERY PLATFORM	
Zymer gen Inc.	ZYM0 056-WO-01	WO	PCT/US21/32980	5/18/2021	Utility: PCT	Publi shed	2022245340	11/24/2022	ENGINEERED BIOSYNTHETIC PATHWAYS FOR PRODUCTION OF DEOXYHYDROCHORISMIC ACID BY FERMENTATION	
Zymer gen Inc. AND Sumitomo Chemical Co. Ltd.	ZYM0 168-WO-01	WO	PCT/US2022/072836	6/9/2022	Utility: PCT	Publi shed	2022261654	12/15/2022	OPTICALLY TRANSPARENT POLYIMIDE	
Zymer gen Inc.	ZYM0 184-WO-01	WO	PCT/US22/73303	6/30/2022	Utility: PCT	Publi shed	2023279057	1/5/2023	FILAMENT COMPRISING A THERMOPLASTIC POLYIMIDE AND THREE-DIMENSIONAL BODY MADE FROM THE FILAMENT	
Zymer gen Inc.	ZYM0 113-WO-01	WO	PCT/US22/36474	7/8/2022	Utility: PCT	Publi shed	2023283413	1/12/2023	ENERGY STORAGE APPLICATION ELECTROLYTES AND ELECTRODE COMPOSITIONS COMPRISED OF HETEROCYCLES	
Zymer gen Inc.	ZYM0 184-US-01	US	17/810,088	6/30/2022	Utility: Non-Provisi onal	Publi shed	20230024296	1/26/2023	FILAMENT COMPRISING A THERMOPLASTIC POLYIMIDE AND THREE-DIMENSIONAL BODY MADE FROM THE FILAMENT	
Zymer gen Inc.	ZYM0 135-US-01	US	17/959,679	10/4/2022	Utility: National Phase	Publi shed	20230045205	2/9/2023	HIGH-THROUGHPUT AUTOMATED STRAIN LIBRARY GENERATOR	

Lodo Therapeutics Corporation	Z00311-401-US	US	17/797,317	8/3/2022	Utility: National Phase	Published	20230049048	2/16/2023	METHODS AND APPARATUS FOR EFFICIENT AND ACCURATE ASSEMBLY OF LONG-READ GENOMIC SEQUENCES
Zymergen Inc.	ZYM0030-US-02	US	17/817,223	8/3/2022	Utility: Continuation	Published	20230074594	3/9/2023	GENOME EDITING USING CRISPR IN CORYNEBACTERIUM
Zymergen Inc.	ZYM0148-US-01	US	17/760,388	8/9/2022	Utility: National Phase	Published	20230073351	3/9/2023	SELECTING BIOLOGICAL SEQUENCES FOR SCREENING TO IDENTIFY SEQUENCES THAT PERFORM A DESIRED FUNCTION
Zymergen Inc.	ZYM0142-US-01	US	17/988,043	11/16/2022	Utility: National Phase	Published	20230078488	3/16/2023	METABOLITE FINGERPRINTING
Zymergen Inc.	ZYM0144-JP-01	JP	JP 2022-548659	8/10/2022	Utility: National Phase	Published	2023513314	3/30/2023	METAGENOMIC LIBRARY AND NATURAL PRODUCT DISCOVERY PLATFORM
Zymergen Inc. AND Akron Polymer Systems, Inc.	ZYM0156-WO-01	WO	PCT/US22/77116	9/27/2022	Utility: PCT	Published	2023056263	4/6/2023	CADAVERINE-BASED POLYIMIDES
Zymergen Inc.	ZYM0059-WO-01	WO	PCT/US21/72020	10/25/2021	Utility: PCT	Published	2023/075814	5/4/2023	ENGINEERED BIOSYNTHETIC PATHWAY FOR PRODUCTION OF P-COUMARIC ACID BY FERMENTATION
Zymergen Inc.	ZS0360-401-CN	CN	2.02E+11	12/27/2022	Utility: National Phase	Published	116075752	5/5/2023	OPTICAL FILM
Zymergen Inc.	ZS0360-401-EP	EP	21833228.6	12/30/2022	Utility: National Phase	Published	4177647	5/10/2023	OPTICAL FILM
Zymergen Inc.	ZS0361-401-EP	EP	21832493.7	12/30/2022	Utility: National Phase	Published	4177296	5/10/2023	OPTICAL FILM
Zymergen Inc.	Z00189-301-WO	WO	PCT/US22/79230	11/3/2022	Utility: PCT	Published	2023081764	5/11/2023	HEXADEPSIPEPTIDE COMPOUNDS AND METHODS OF USING THE SAME
Zymergen Inc. AND Sumitomo Chemical Co. Ltd.	ZYM0122-CN-01	CN	CN 2021800530453	3/10/2023	Utility: National Phase	Published	CN116113634A	5/12/2023	MODULUS MODIFIERS AND FILMS THEREOF
Zymergen Inc.	ZYM0136-US-01	US	17/918,525	10/12/2022	Utility: National Phase	Published	2023159955	5/25/2023	CIRCULAR-PERMUTED NUCLEIC ACIDS FOR HOMOLOGY-DIRECTED EDITING
Zymergen Inc.	ZYM0101-US-00	US	17/420,629	7/2/2021	Utility: National Phase	Published	20230170040	6/1/2023	PRIORITIZING POTENTIAL NODES FOR EDITING OR POTENTIAL EDITS TO A NODE FOR STRAIN ENGINEERING
Zymergen Inc.	ZS0361-401-CN	CN	202180046752.X	12/27/2022	Utility: National Phase	Published	116209700	6/2/2023	OPTICAL FILM
Zymergen Inc.	ZYM0152-KR-01	KR	10-2023-7008659	3/13/2023	Utility: National Phase	Published	20230078639	6/2/2023	ENGINEERED BIOSYNTHETIC PATHWAY FOR PRODUCTION OF 4-AMINOPHENYLETHYLAMINE BY FERMENTATION
Zymergen Inc.	ZYM0055-US-01	US	17/917,221	10/5/2022	Utility: National Phase	Published	20230175023	6/8/2023	ENGINEERED BIOSYNTHETIC PATHWAY FOR PRODUCTION OF 3,4-DIHYDROXYBENZOIC BY FERMENTATION

Zymer gen Inc.	ZS036 7-301-WO	WO	PCT/JP22/4 4523	12/2/2022	Utility: PCT	Publi shed	2023101005	6/8/2023	FILM AND POLYIMIDE-BASED RESIN
Zymer gen Inc.	ZS036 8-301-WO	WO	PCT/JP22/4 4525	12/2/2022	Utility: PCT	Publi shed	2023101006	6/8/2023	METHOD FOR PRODUCING POLYIMIDE RESIN
Zymer gen Inc.	ZS036 7-101-JP	JP	2021-197339	12/3/2021	Utility: Foreign	Publi shed	2023-083147	6/15/2023	FILM AND POLYIMIDE RESIN
Zymer gen Inc.	ZS036 8-101-JP	JP	JP 2021-197338	12/3/2021	Utility: Foreign	Publi shed	2023083146	6/15/2023	METHOD FOR PRODUCING POLYIMIDE RESIN
Zymer gen Inc.	ZYM0 144-US-03	US	17/951,779	9/23/2022	Utility: Continuation	Publi shed	20230187027	6/15/2023	METAGENOMIC LIBRARY AND NATURAL PRODUCT DISCOVERY PLATFORM
Zymer gen Inc.	ZYM0 114-US-01	US	17/995,920	10/10/2022	Utility: National Phase	Publi shed	20230192637	6/22/2023	HYDROGENATION OF NEPETALACTONE
Zymer gen Inc.	ZYM0 152-EP-01	EP	21859154.3	3/7/2023	Utility: National Phase	Publi shed	4200430	6/28/2023	ENGINEERED BIOSYNTHETIC PATHWAY FOR PRODUCTION OF 4-AMINOPHENYLETHYLAMINE BY FERMENTATION
Kent State University AND Zymer gen Inc.	ZYM0 139-US-01	US	17/928,265	11/28/2022	Utility: National Phase	Publi shed	20230203378	6/29/2023	FORMULATIONS OF BIOREACHABLE DOPANTS FOR LIQUID CRYSTALS
Zymer gen Inc.	Z0019 1-301-WO	WO	PCT/US22/82102	12/21/2022	Utility: PCT	Publi shed	2023122641	6/29/2023	COMPOSITIONS AND METHODS FOR PRODUCING ACETIC ACID AND POLYSACCHARIDES
Zymer gen Inc.	ZYM0 152-CN-01	CN	202180068 696.X	4/6/2023	Utility: National Phase	Publi shed	116368233	6/30/2023	ENGINEERED BIOSYNTHETIC PATHWAY FOR PRODUCTION OF 4-AMINOPHENYLETHYLAMINE BY FERMENTATION
Zymer gen Inc.	ZYM0 153-US-01	US	18/155,552	1/17/2023	Utility: National Phase	Publi shed	20230220424	7/13/2023	RAPID REMOVAL OF A SELF-REPLICATING FUNGAL PLASMID FOR EFFICIENT MARKER CYCLING
Zymer gen Inc. AND Sumitomo Chemical Co. Ltd.	ZYM0 122-JP-01	JP	2022-581533	12/28/2022	Utility: National Phase	Publi shed	2023-532343	7/27/2023	MODULUS MODIFIERS AND FILMS THEREOF
Zymer gen Inc.	ZYM0 034-US-03	US	18/166,746	2/9/2023	Utility: Continuation	Publi shed	20230235318	7/27/2023	A HTP PLATFORM FOR THE GENETIC ENGINEERING OF CHINESE HAMSTER OVARY CELLS
Zymer gen Inc.	ZYM0 115-US-01	US	18/003,482	12/27/2022	Utility: National Phase	Publi shed	20230242491	8/3/2023	DIMERS FROM BIOREACHABLE MOLECULES AS COPOLYMERS
Zymer gen Inc. AND Sumitomo Chemical Co. Ltd.	ZYM0 122-US-01	US	18/003,611	12/28/2022	Utility: National Phase	Publi shed	20230242720	8/3/2023	MODULUS MODIFIERS AND FILMS THEREOF
Zymer gen Inc.	ZYM0 160-EP-01	EP	21876385.2	4/13/2023	Utility: National Phase	Publi shed	4222750	8/9/2023	METHODS TO IDENTIFY NOVEL INSECTICIDAL PROTEINS FROM COMPLEX METAGENOMIC MICROBIAL SAMPLES
Zymer gen Inc.	ZYM0 141-US-01	US	18/017,956	1/25/2023	Utility: National Phase	Publi shed	20230265460	8/24/2023	A MODULAR AND POOLED APPROACH FOR MULTIPLEXED CRISPR GENOME EDITING

Zymergen Inc.	ZYM0125-US-01	US	18/040,291	2/2/2023	Utility: National Phase	Published	20230279182	9/7/2023	PROCESS FOR POLYIMIDE SYNTHESIS AND POLYIMIDES MADE THEREFROM
Zymergen Inc.	ZYM0125-JP-01	JP	2023-508118	2/6/2023	Utility: National Phase	Published	202354007	9/21/2023	PROCESS FOR POLYIMIDE SYNTHESIS AND POLYIMIDES MADE THEREFROM
Zymergen Inc.	ZYM0125-JP-01	CA	CA 3105455	8/14/2019		Published	CA 3105455 A1	2/20/2020	PROCESS FOR POLYIMIDE SYNTHESIS AND POLYIMIDES MADE THEREFROM
Zymergen Inc.	ZYM0125-JP-01	CN	CN 201980052497.2	2/5/2021		Published	CN 112585687 A	3/30/2021	
Zymergen Inc.	ZYM0125-JP-01	EP	EP 19849944.4	3/15/2021		Published	EP 3837692 A1	6/23/2021	
Zymergen Inc.	ZYM0125-JP-01	HK	HK 62021033261.0	6/17/2021		Published	HK 40043300A	9/10/2021	
Zymergen Inc.	ZYM0125-JP-01	JP	JP 2021-500993	1/13/2021		Published	JP 2021536049 A	12/23/2021	
Zymergen Inc.	ZYM0125-JP-01	KR	KR 10-2021-7002962	1/28/2021		Published	KR 1020210043568 A	4/21/2021	
Zymergen Inc.	ZYM0125-JP-01	US	16/542,157	8/15/2019		Published	US 2020/0058376	2/20/2020	

Patents Issued:

Ownership	Attorney Ref	Type	Status	Country Code	PatentNum	IssueDate	Title
enEvolv, Inc.	Z00302-401-US	Utility: National Phase	Issued	US	9944925	4/17/2018	PROCESSES AND HOST CELLS FOR GENOME, PATHWAY, AND BIOMOLECULAR ENGINEERING
Zymergen Inc.	ZYM0009-US-00	Utility: National Phase	Issued	US	9988624	6/5/2018	MICROBIAL STRAIN IMPROVEMENT BY A HTP GENOMIC ENGINEERING PLATFORM
Zymergen Inc.	ZYM0009-US-02	Utility: Continuation	Issued	US	10047358	8/14/2018	MICROBIAL STRAIN IMPROVEMENT BY A HTP GENOMIC ENGINEERING PLATFORM
Zymergen Inc.	ZYM0003-US-00	Utility: Non-Provisional	Issued	US	10233419	3/19/2019	APPARATUSES AND METHODS FOR ELECTROPORATION
Zymergen Inc.	ZYM0006-US-00	Utility: Non-Provisional	Issued	US	10318526	6/11/2019	COMPLEX CHEMICAL SUBSTRUCTURE SEARCH QUERY BUILDING AND EXECUTION
Zymergen Inc.	ZYM0009-US-00	Utility: Non-Provisional	Issued	US	10336999	7/2/2019	COMPOSITIONS AND METHODS FOR ACTIVATING SILENT GENE CLUSTERS
Zymergen Inc.	ZYM0009-US-01	Utility: Continuation	Issued	US	10336998	7/2/2019	MICROBIAL STRAIN IMPROVEMENT BY A HTP GENOMIC ENGINEERING PLATFORM
Zymergen Inc.	ZYM0009-KR-00	Utility: National Phase	Issued	KR	KR 102006320 B1	7/26/2019	MICROBIAL STRAIN IMPROVEMENT BY A HTP GENOMIC ENGINEERING PLATFORM
enEvolv, Inc.	Z00302-501-US	Utility: Continuation	Issued	US	10370654	8/6/2019	PROCESSES AND HOST CELLS FOR GENOME, PATHWAY, AND BIOMOLECULAR ENGINEERING
Zymergen Inc.	ZYM0009-JP-00	Utility: National Phase	Issued	JP	JP 6605042 B2	10/25/2019	MICROBIAL STRAIN IMPROVEMENT BY A HTP GENOMIC ENGINEERING PLATFORM

Zymergen Inc.	ZYM000 4-US-00	Utility: National Phase	Issu ed	US	10544411	1/28/2020	METHODS FOR GENERATING A GLUCOSE PERMEASE LIBRARY AND USES THEREOF
Zymergen Inc.	ZYM000 5-US-00	Utility: National Phase	Issu ed	US	10544390	1/28/2020	METHODS FOR GENERATING A BACTERIAL HEMOGLOBIN LIBRARY AND USES THEREOF
Zymergen Inc.	ZYM000 9-CN-00	Utility: National Phase	Issu ed	CN	ZL 20168003711 2.1	3/20/2020	MICROBIAL STRAIN IMPROVEMENT BY A HTP GENOMIC ENGINEERING PLATFORM
Zymergen Inc.	ZYM000 9-US-04	Utility: Continua tion	Issu ed	US	10647980	5/12/2020	MICROBIAL STRAIN IMPROVEMENT BY A HTP GENOMIC ENGINEERING PLATFORM
Zymergen Inc.	ZYM002 7-US-00	Utility: National Phase	Issu ed	US	10662415	5/26/2020	ENGINEERED BIOSYNTHETIC PATHWAYS FOR PRODUCTION OF (6E)-8-HYDROXYGERANIOL BY FERMENTATION
Zymergen Inc.	ZYM000 9-JP-01	Utility: Division al	Issu ed	JP	JP 6715374 B2	6/10/2020	MICROBIAL STRAIN IMPROVEMENT BY A HTP GENOMIC ENGINEERING PLATFORM
Zymergen Inc.	ZYM002 8-US-01	Utility: National Phase	Issu ed	US	10696991	6/30/2020	NEPETALACTOL OXIDOREDUCTASES, NEPETALACTOL SYNTHASES, AND MICROBES CAPABLE OF PRODUCING NEPETALACTONE
Zymergen Inc.	ZYM000 6-CA-00	Utility: National Phase	Issu ed	CA	CA 3029638 C	7/7/2020	CHEMICAL SUBSTRUCTURE SEARCH QUERY BUILDING AND EXECUTION
Zymergen Inc.	ZYM000 3-US-01	Utility: Continua tion	Issu ed	US	10731121	8/4/2020	APPARATUSES AND METHODS FOR ELECTROPORATION
Zymergen Inc.	ZYM000 9-US-06	Utility: Continua tion	Issu ed	US	10745694	8/18/2020	AUTOMATED SYSTEM FOR HTP GENOMIC ENGINEERING
Zymergen Inc.	ZYM000 3-CA-00	Utility: National Phase	Issu ed	CA	CA 3029547 C	9/8/2020	APPARATUS FOR ELECTROPORATION
Zymergen Inc.	ZYM000 9-CA-00	Utility: Foreign	Issu ed	CA	CA 3007840 C	9/15/2020	MICROBIAL STRAIN IMPROVEMENT BY A HTP GENOMIC ENGINEERING PLATFORM
Zymergen Inc.	ZYM000 9-US-07	Utility: Continua tion	Issu ed	US	10808243	10/20/2020	MICROBIAL STRAIN IMPROVEMENT BY A HTP GENOMIC ENGINEERING PLATFORM
Zymergen Inc.	ZYM000 9-JP-02	Utility: Division al	Issu ed	JP	JP 6798056 B2	11/20/2020	MICROBIAL STRAIN IMPROVEMENT BY A HTP GENOMIC ENGINEERING PLATFORM
Zymergen Inc.	ZYM000 9-US-08	Utility: Continua tion	Issu ed	US	10883101	1/5/2021	AUTOMATED SYSTEM FOR HTP GENOMIC ENGINEERING
Zymergen Inc.	ZYM000 1-JP-00	Utility: National Phase	Issu ed	JP	JP 6821598 B2	1/8/2021	PROMOTERS FROM CORYNEBACTERIUM GLUTAMICUM
Zymergen Inc.	ZYM000 3-DE-00	Utility: Foreign	Issu ed	DE	DE 60201703208 4.6	1/27/2021	APPARATUSES AND METHODS FOR ELECTROPORATION
Zymergen Inc.	ZYM000 3-EP-00	Utility: National Phase	Issu ed	EP	EP 3478819 B1	1/27/2021	APPARATUSES AND METHODS FOR ELECTROPORATION
Zymergen Inc.	ZYM000 3-ES-00	Utility: Foreign	Issu ed	ES	EP 3478819	1/27/2021	APPARATUSES AND METHODS FOR ELECTROPORATION
Zymergen Inc.	ZYM000 3-FR-00	Utility: Foreign	Issu ed	FR	EP 3478819	1/27/2021	APPARATUSES AND METHODS FOR ELECTROPORATION
Zymergen Inc.	ZYM000 3-GB-00	Utility: Foreign	Issu ed	GB	EP 3478819	1/27/2021	APPARATUSES AND METHODS FOR ELECTROPORATION
Zymergen Inc.	ZYM000 1-CH-00	Utility: Foreign	Issu ed	CH	EP 3387135	2/17/2021	PROMOTERS FROM CORYNEBACTERIUM GLUTAMICUM
Zymergen Inc.	ZYM000 1-DE-00	Utility: Foreign	Issu ed	DE	DE 60201605275 5.3	2/17/2021	PROMOTERS FROM CORYNEBACTERIUM GLUTAMICUM

Zymergen Inc.	ZYM000 1-ES-00	Utility: Foreign	Issu ed	ES	EP 3387135	2/17/2021	PROMOTERS FROM CORYNEBACTERIUM GLUTAMICUM
Zymergen Inc.	ZYM000 1-FR-00	Utility: Foreign	Issu ed	FR	EP 3387135	2/17/2021	PROMOTERS FROM CORYNEBACTERIUM GLUTAMICUM
Zymergen Inc.	ZYM000 1-GB-00	Utility: Foreign	Issu ed	GB	EP 3387135	2/17/2021	PROMOTERS FROM CORYNEBACTERIUM GLUTAMICUM
Zymergen Inc.	ZYM000 1-IE-00	Utility: Foreign	Issu ed	IE	EP 3387135	2/17/2021	PROMOTERS FROM CORYNEBACTERIUM GLUTAMICUM
Zymergen Inc.	ZYM000 1-IT-00	Utility: Foreign	Issu ed	IT	IT 50202100003 4070	2/17/2021	PROMOTERS FROM CORYNEBACTERIUM GLUTAMICUM
Zymergen Inc.	ZYM000 1-NL-00	Utility: Foreign	Issu ed	NL	EP 3387135	2/17/2021	PROMOTERS FROM CORYNEBACTERIUM GLUTAMICUM
Zymergen Inc.	ZYM000 1-EP-00	Utility: National Phase	Issu ed	EP	EP 3387135 B1	2/17/2021	PROMOTERS FROM CORYNEBACTERIUM GLUTAMICUM
Zymergen Inc.	ZYM001 0-US-01	Utility: National Phase	Issu ed	US	10954511	3/23/2021	A HTP GENOMIC ENGINEERING PLATFORM FOR IMPROVING FUNGAL STRAINS
Zymergen Inc.	ZYM001 7-CH-00	Utility: Foreign	Issu ed	CH	EP 3485013	3/24/2021	A HTP GENOMIC ENGINEERING PLATFORM FOR IMPROVING ESCHERICHIA COLI
Zymergen Inc.	ZYM001 7-DE-00	Utility: Foreign	Issu ed	DE	DE 60201801444 1.2	3/24/2021	A HTP GENOMIC ENGINEERING PLATFORM FOR IMPROVING ESCHERICHIA COLI
Zymergen Inc.	ZYM001 7-ES-00	Utility: Foreign	Issu ed	ES	EP 3485013	3/24/2021	A HTP GENOMIC ENGINEERING PLATFORM FOR IMPROVING ESCHERICHIA COLI
Zymergen Inc.	ZYM001 7-FR-00	Utility: Foreign	Issu ed	FR	EP 3485013	3/24/2021	A HTP GENOMIC ENGINEERING PLATFORM FOR IMPROVING ESCHERICHIA COLI
Zymergen Inc.	ZYM001 7-GB-00	Utility: Foreign	Issu ed	GB	EP 3485013	3/24/2021	A HTP GENOMIC ENGINEERING PLATFORM FOR IMPROVING ESCHERICHIA COLI
Zymergen Inc.	ZYM001 7-IE-00	Utility: Foreign	Issu ed	IE	EP 3485013	3/24/2021	A HTP GENOMIC ENGINEERING PLATFORM FOR IMPROVING ESCHERICHIA COLI
Zymergen Inc.	ZYM001 7-IT-00	Utility: Foreign	Issu ed	IT	EP 3485013	3/24/2021	A HTP GENOMIC ENGINEERING PLATFORM FOR IMPROVING ESCHERICHIA COLI
Zymergen Inc.	ZYM001 7-NL-00	Utility: Foreign	Issu ed	NL	EP 3485013	3/24/2021	A HTP GENOMIC ENGINEERING PLATFORM FOR IMPROVING ESCHERICHIA COLI
Zymergen Inc.	ZYM001 7-EP-00	Utility: National Phase	Issu ed	EP	EP 3485013 B1	3/24/2021	A HTP GENOMIC ENGINEERING PLATFORM FOR IMPROVING ESCHERICHIA COLI
Zymergen Inc.	ZYM000 9-CH-00	Utility: Foreign	Issu ed	CH	EP 3387571	3/31/2021	MICROBIAL STRAIN IMPROVEMENT BY A HTP GENOMIC ENGINEERING PLATFORM
Zymergen Inc.	ZYM000 9-DE-00	Utility: Foreign	Issu ed	DE	DE 60201605543 4.8	3/31/2021	MICROBIAL STRAIN IMPROVEMENT BY A HTP GENOMIC ENGINEERING PLATFORM
Zymergen Inc.	ZYM000 9-ES-00	Utility: Foreign	Issu ed	ES	EP 3387571	3/31/2021	MICROBIAL STRAIN IMPROVEMENT BY A HTP GENOMIC ENGINEERING PLATFORM
Zymergen Inc.	ZYM000 9-FR-00	Utility: Foreign	Issu ed	FR	EP 3387571	3/31/2021	MICROBIAL STRAIN IMPROVEMENT BY A HTP GENOMIC ENGINEERING PLATFORM
Zymergen Inc.	ZYM000 9-GB-00	Utility: Foreign	Issu ed	GB	EP 3387571	3/31/2021	MICROBIAL STRAIN IMPROVEMENT BY A HTP GENOMIC ENGINEERING PLATFORM
Zymergen Inc.	ZYM000 9-IE-00	Utility: Foreign	Issu ed	IE	EP 3387571	3/31/2021	MICROBIAL STRAIN IMPROVEMENT BY A HTP GENOMIC ENGINEERING PLATFORM

Zymergen Inc.	ZYM000 9-IT-00	Utility: Foreign	Issu ed	IT	IT 50202100004 9952	3/31/2021	MICROBIAL STRAIN IMPROVEMENT BY A HTP GENOMIC ENGINEERING PLATFORM
Zymergen Inc.	ZYM000 9-NL-00	Utility: Foreign	Issu ed	NL	EP 3387571	3/31/2021	MICROBIAL STRAIN IMPROVEMENT BY A HTP GENOMIC ENGINEERING PLATFORM
Zymergen Inc.	ZYM000 9-EP-00	Utility: National Phase	Issu ed	EP	EP 3387571 B1	3/31/2021	MICROBIAL STRAIN IMPROVEMENT BY A HTP GENOMIC ENGINEERING PLATFORM
Zymergen Inc.	ZYM000 9-US-09	Utility: Continua tion	Issu ed	US	10968445	4/6/2021	MICROBIAL STRAIN IMPROVEMENT BY A HTP GENOMIC ENGINEERING PLATFORM
Zymergen Inc.	ZYM003 4-US-01	Utility: National Phase	Issu ed	US	10988761	4/27/2021	A HTP PLATFORM FOR THE GENETIC ENGINEERING OF CHINESE HAMSTER OVARY CELLS
Zymergen Inc.	ZYM000 9-CA-01	Utility: Division al	Issu ed	CA	CA 3088654 C	5/18/2021	MICROBIAL STRAIN IMPROVEMENT BY A HTP GENOMIC ENGINEERING PLATFORM
Zymergen Inc.	ZYM003 1-US-01	Utility: National Phase	Issu ed	US	11008569	5/18/2021	METHOD FOR CREATING A GENOMIC LIBRARY ENRICHED FOR BACILLUS AND IDENTIFICATION OF NOVEL CRY TOXINS
Zymergen Inc.	ZYM000 9-CA-02	Utility: Division al	Issu ed	CA	CA 3090392 C	6/1/2021	MICROBIAL STRAIN IMPROVEMENT BY A HTP GENOMIC ENGINEERING PLATFORM
Zymergen Inc.	ZYM004 2-US-00	Utility: Non- Provision al	Issu ed	US	11028401	6/8/2021	MANIPULATION OF GENES INVOLVED IN SIGNAL TRANSDUCTION TO CONTROL FUNGAL MORPHOLOGY DURING FERMENTATION AND PRODUCTION
Zymergen Inc.	ZYM001 2-US-00	Utility: National Phase	Issu ed	US	11028416	6/8/2021	ENGINEERED BIOSYNTHETIC PATHWAYS FOR PRODUCTION OF TYRAMINE BY FERMENTATION
Zymergen Inc.	ZYM003 2-US-01	Utility: National Phase	Issu ed	US	11046974	6/29/2021	INSECTICIDAL PROTEIN DISCOVERY PLATFORM AND INSECTICIDAL PROTEINS DISCOVERED THEREFROM
Zymergen Inc.	ZYM010 2-US-00	Utility: National Phase	Issu ed	US	11053506	7/6/2021	ITERATIVE GENOME EDITING IN MICROBES
Zymergen Inc.	ZYM010 4-US-00	Utility: National Phase	Issu ed	US	11053515	7/6/2021	POOLED GENOME EDITING IN MICROBES
Zymergen Inc.	ZYM005 3-US-00	Utility: Non- Provision al	Issu ed	US	11066663	7/20/2021	MULTIPLICED DETERMINISTIC ASSEMBLY OF DNA LIBRARIES
Zymergen Inc.	ZYM000 9-US-05	Utility: Continua tion	Issu ed	US	11085040	8/10/2021	SYSTEMS AND METHODS FOR HOST CELL IMPROVEMENT UTILIZING EPISTATIC EFFECTS
Zymergen Inc.	ZYM004 4-US-00	Utility: Non- Provision al	Issu ed	US	11098279	8/24/2021	LIQUID BASED SELECTION AND CELL ISOLATION
Zymergen Inc.	ZYM001 3-US-00	Utility: National Phase	Issu ed	US	11098305	8/24/2021	MODULAR UNIVERSAL PLASMID DESIGN STRATEGY FOR THE ASSEMBLY AND EDITING OF MULTIPLE DNA CONSTRUCTS FOR MULTIPLE HOSTS
Zymergen Inc.	ZYM013 2-US-01	Utility: Non- Provision al	Issu ed	US	11111507	9/7/2021	METHOD FOR COUNTERSELECTION IN MICROORGANISMS
Zymergen Inc.	ZYM004 5-US-01	Utility: Non- Provision al	Issu ed	US	11130955	9/28/2021	APPLICATIONS OF CRISPRi IN HIGH THROUGHPUT METABOLIC ENGINEERING
Zymergen Inc.	ZYM000 2-US-00	Utility: Non- Provision al	Issu ed	US	11151497	10/19/2021	MICROBIAL STRAIN DESIGN SYSTEM AND METHODS FOR

		<u>Provisional</u>					<u>IMPROVED LARGE-SCALE PRODUCTION OF ENGINEERED NUCLEOTIDE SEQUENCES</u>
<u>Zymergen Inc.</u>	<u>ZYM0009-US-10</u>	<u>Utility: Continuation</u>	<u>Issued</u>	<u>US</u>	<u>11155807</u>	<u>10/26/2021</u>	<u>AN AUTOMATED SYSTEM FOR HTP GENOMIC ENGINEERING</u>
<u>Zymergen Inc.</u>	<u>ZYM0009-US-11</u>	<u>Utility: Continuation</u>	<u>Issued</u>	<u>US</u>	<u>11155808</u>	<u>10/26/2021</u>	<u>A HTP ENGINEERING PLATFORM</u>
<u>Zymergen Inc.</u>	<u>ZYM0009-HK-00</u>	<u>Utility: National Phase</u>	<u>Issued</u>	<u>HK</u>	<u>HK 1262289</u>	<u>11/12/2021</u>	<u>MICROBIAL STRAIN IMPROVEMENT BY A HTP GENOMIC ENGINEERING PLATFORM</u>
<u>Zymergen Inc.</u>	<u>ZYM0001-HK-00</u>	<u>Utility: National Phase</u>	<u>Issued</u>	<u>HK</u>	<u>HK 1262287</u>	<u>11/19/2021</u>	<u>PROMOTERS FROM CORYNEBACTERIUM GLUTAMICUM</u>
<u>Zymergen Inc.</u>	<u>ZYM0010-US-02</u>	<u>Utility: Continuation</u>	<u>Issued</u>	<u>US</u>	<u>11180753</u>	<u>11/23/2021</u>	<u>HTP GENOMIC ENGINEERING PLATFORM FOR IMPROVING FUNGAL STRAINS</u>
<u>Zymergen Inc.</u>	<u>ZYM0144-US-01</u>	<u>Utility: Non-Provisional</u>	<u>Issued</u>	<u>US</u>	<u>11189362</u>	<u>11/30/2021</u>	<u>METAGENOMIC LIBRARY AND NATURAL PRODUCT DISCOVERY PLATFORM</u>
<u>Zymergen Inc.</u>	<u>ZYM0028-US-02</u>	<u>Utility: Continuation</u>	<u>Issued</u>	<u>US</u>	<u>11193150</u>	<u>12/7/2021</u>	<u>NEPETALACTOL OXIDOREDUCTASES, NEPETALACTOL SYNTHASES, AND MICROBES CAPABLE OF PRODUCING NEPETALACTONE</u>
<u>Zymergen Inc.</u>	<u>ZYM0004-KR-00</u>	<u>Utility: National Phase</u>	<u>Issued</u>	<u>KR</u>	<u>KR 102345898 B1</u>	<u>12/28/2021</u>	<u>METHODS FOR GENERATING A GLUCOSE PERMEASE LIBRARY AND USES THEREOF</u>
<u>Zymergen Inc.</u>	<u>ZYM0009-US-12</u>	<u>Utility: Continuation</u>	<u>Issued</u>	<u>US</u>	<u>11208649</u>	<u>12/28/2021</u>	<u>HTP GENOMIC ENGINEERING PLATFORM</u>
<u>Zymergen Inc.</u>	<u>ZYM0005-KR-00</u>	<u>Utility: National Phase</u>	<u>Issued</u>	<u>KR</u>	<u>KR 102345899 B1</u>	<u>12/31/2021</u>	<u>METHODS FOR GENERATING A BACTERIAL HEMOGLOBIN LIBRARY AND USES THEREOF</u>
<u>Zymergen Inc.</u>	<u>ZYM0015-US-00</u>	<u>Utility: National Phase</u>	<u>Issued</u>	<u>US</u>	<u>11227670</u>	<u>1/18/2022</u>	<u>MICROBIAL ENGINEERING METHODS AND SYSTEMS FOR OPTIMIZING MICROBE FITNESS</u>
<u>Zymergen Inc.</u>	<u>ZYM0010-US-03</u>	<u>Utility: Divisional</u>	<u>Issued</u>	<u>US</u>	<u>11242524</u>	<u>2/8/2022</u>	<u>A HTP GENOMIC ENGINEERING PLATFORM FOR IMPROVING FUNGAL STRAINS</u>
<u>enEvolv. Inc.</u>	<u>Z00302-401-DE</u>	<u>Utility: Foreign</u>	<u>Issued</u>	<u>DE</u>	<u>EP 3027754 B1</u>	<u>3/2/2022</u>	<u>PROCESSES AND HOST CELLS FOR GENOME, PATHWAY, AND BIOMOLECULAR ENGINEERING</u>
<u>enEvolv. Inc.</u>	<u>Z00302-401-ES</u>	<u>Utility: Foreign</u>	<u>Issued</u>	<u>ES</u>	<u>EP 3027754 B1</u>	<u>3/2/2022</u>	<u>PROCESSES AND HOST CELLS FOR GENOME, PATHWAY, AND BIOMOLECULAR ENGINEERING</u>
<u>enEvolv. Inc.</u>	<u>Z00302-401-FR</u>	<u>Utility: Foreign</u>	<u>Issued</u>	<u>FR</u>	<u>EP 3027754 B1</u>	<u>3/2/2022</u>	<u>PROCESSES AND HOST CELLS FOR GENOME, PATHWAY, AND BIOMOLECULAR ENGINEERING</u>
<u>enEvolv. Inc.</u>	<u>Z00302-401-GB</u>	<u>Utility: Foreign</u>	<u>Issued</u>	<u>GB</u>	<u>EP 3027754 B1</u>	<u>3/2/2022</u>	<u>PROCESSES AND HOST CELLS FOR GENOME, PATHWAY, AND BIOMOLECULAR ENGINEERING</u>
<u>enEvolv. Inc.</u>	<u>Z00302-401-NL</u>	<u>Utility: Foreign</u>	<u>Issued</u>	<u>NL</u>	<u>EP 3027754 B1</u>	<u>3/2/2022</u>	<u>PROCESSES AND HOST CELLS FOR GENOME, PATHWAY, AND BIOMOLECULAR ENGINEERING</u>
<u>enEvolv. Inc.</u>	<u>Z00302-401-EP</u>	<u>Utility: National Phase</u>	<u>Issued</u>	<u>EP</u>	<u>EP 3027754 B1</u>	<u>3/2/2022</u>	<u>PROCESSES AND HOST CELLS FOR GENOME, PATHWAY, AND BIOMOLECULAR ENGINEERING</u>
<u>Zymergen Inc.</u>	<u>ZYM0102-US-01</u>	<u>Utility: Continuation</u>	<u>Issued</u>	<u>US</u>	<u>11279940</u>	<u>3/22/2022</u>	<u>ITERATIVE GENOME EDITING IN MICROBES</u>
<u>Zymergen Inc.</u>	<u>ZYM0001-US-00</u>	<u>Utility: National Phase</u>	<u>Issued</u>	<u>US</u>	<u>11293029</u>	<u>4/5/2022</u>	<u>PROMOTERS FROM CORYNEBACTERIUM GLUTAMICUM</u>
<u>Zymergen Inc.</u>	<u>ZYM0042-US-01</u>	<u>Utility: Continuation</u>	<u>Issued</u>	<u>US</u>	<u>11299741</u>	<u>4/12/2022</u>	<u>MANIPULATION OF GENES INVOLVED IN SIGNAL TRANSDUCTION TO CONTROL FUNGAL MORPHOLOGY DURING FERMENTATION AND PRODUCTION</u>
<u>Zymergen Inc.</u>	<u>ZYM0132-US-02</u>	<u>Utility: Continuation</u>	<u>Issued</u>	<u>US</u>	<u>11299753</u>	<u>4/12/2022</u>	<u>METHOD FOR COUNTERSELECTION IN MICROORGANISMS</u>

Zymergen Inc.	ZYM000 9-US-14	Utility: Continuation	Issued	US	11312951	4/26/2022	SYSTEMS AND METHODS FOR HOST CELL IMPROVEMENT UTILIZING EPISTATIC EFFECTS
Zymergen Inc.	ZYM000 9-US-13	Utility: Continuation	Issued	US	11352621	6/7/2022	HTP GENOMIC ENGINEERING PLATFORM
Zymergen Inc.	ZYM000 9-CN-01	Utility: Divisional	Issued	CN	ZL 20201011763 5.5	7/26/2022	MICROBIAL STRAIN IMPROVEMENT BY A HTP GENOMIC ENGINEERING PLATFORM
Zymergen Inc.	ZYM000 9-DE-01	Utility: Foreign	Issued	DE	EP 3858996	8/3/2022	MICROBIAL STRAIN IMPROVEMENT BY A HTP GENOMIC ENGINEERING PLATFORM
Zymergen Inc.	ZYM000 9-ES-01	Utility: Foreign	Issued	ES	EP 3858996	8/3/2022	MICROBIAL STRAIN IMPROVEMENT BY A HTP GENOMIC ENGINEERING PLATFORM
Zymergen Inc.	ZYM000 9-FR-01	Utility: Foreign	Issued	FR	EP 3858996	8/3/2022	MICROBIAL STRAIN IMPROVEMENT BY A HTP GENOMIC ENGINEERING PLATFORM
Zymergen Inc.	ZYM000 9-GB-01	Utility: Foreign	Issued	GB	EP 3858996	8/3/2022	MICROBIAL STRAIN IMPROVEMENT BY A HTP GENOMIC ENGINEERING PLATFORM
Zymergen Inc.	ZYM000 9-IT-01	Utility: Foreign	Issued	IT	EP 3858996	8/3/2022	MICROBIAL STRAIN IMPROVEMENT BY A HTP GENOMIC ENGINEERING PLATFORM
Zymergen Inc.	ZYM000 9-EP-01	Utility: Foreign	Issued	EP	EP 3858996	8/3/2022	MICROBIAL STRAIN IMPROVEMENT BY A HTP GENOMIC ENGINEERING PLATFORM
Zymergen Inc.	ZYM000 9-JP-03	Utility: Divisional	Issued	JP	JP 7119048	8/5/2022	MICROBIAL STRAIN IMPROVEMENT BY A HTP GENOMIC ENGINEERING PLATFORM
Zymergen Inc. AND The Regents of the University of Michigan AND The United States of America as Represented by the Secretary of the Army	ZYM002 2-US-00	Utility: Non-Provisional	Issued	US	11452967	9/27/2022	METAL-ORGANIC FRAMEWORK MATERIALS
Zymergen Inc.	ZYM000 9-CA-03	Utility: Divisional	Issued	CA	3105722	10/11/2022	MICROBIAL STRAIN IMPROVEMENT BY A HTP GENOMIC ENGINEERING PLATFORM
Zymergen Inc.	ZYM015 1-US-01	Utility: Non-Provisional	Issued	US	11479779	10/25/2022	SYSTEMS AND METHODS FOR HIGH-THROUGHPUT AUTOMATED STRAIN GENERATION FOR NON-SPORULATING FUNGI
Zymergen Inc.	ZYM014 4-US-02	Utility: Continuation	Issued	US	11495326	11/8/2022	METAGENOMIC LIBRARY AND NATURAL PRODUCT DISCOVERY PLATFORM
Zymergen Inc.	ZYM001 6-US-00	Utility: National Phase	Issued	US	11519012	12/6/2022	GENOMIC ENGINEERING OF BIOSYNTHETIC PATHWAYS LEADING TO INCREASED NADPH
Zymergen Inc.	ZYM000 3-CA-01	Utility: Foreign	Issued	CA	CA 3,087,576	1/3/2023	APPARATUS FOR ELECTROPORATION
Zymergen Inc.	ZYM000 7-US-00	Utility: National Phase	Issued	US	11549096	1/10/2023	GENETIC PERTURBATION OF THE RNA DEGRADOSOME PROTEIN COMPLEX
Zymergen Inc.	ZYM002 6-US-00	Utility: National Phase	Issued	US	11574153	2/7/2023	IDENTIFYING ORGANISMS FOR PRODUCTION USING UNSUPERVISED PARAMETER LEARNING FOR OUTLIER DETECTION
Zymergen Inc.	ZYM001 0-JP-01	Utility: National Phase	Issued	JP	7227162	2/13/2023	A HTP GENOMIC ENGINEERING PLATFORM FOR IMPROVING FUNGAL STRAINS

Zymergen Inc.	ZYM0049-US-00	Utility: National Phase	Issued	US	11581064	2/14/2023	DEVICE-AGNOSTIC SYSTEM FOR PLANNING AND EXECUTING HIGH-THROUGHPUT GENOMIC MANUFACTURING OPERATIONS
Zymergen Inc.	ZYM0039-US-01	Utility: Divisional	Issued	US	11618898	4/4/2023	COMPOSITIONS AND METHODS FOR ACTIVATING SILENT GENE CLUSTERS
Zymergen Inc.	ZYM0035-US-00	Utility: National Phase	Issued	US	11739355	8/29/2023	ENGINEERED BIOSYNTHETIC PATHWAYS FOR PRODUCTION OF HISTAMINE BY FERMENTATION

Patents Unpublished and Pending:

Ownership	Attorney Ref	Country Code	Application Number	Filing Date	Type	Priority Application + Publication	Title
Zymergen Inc.	ZS0360-101-JP	JP	JP 2020-115180	7/2/2020	Utility: Foreign	Priority Appl to WO2022004856	OPTICAL FILM
Zymergen Inc.	ZS0361-101-JP	JP	JP 2020-115181	7/2/2020	Utility: Foreign	Priority Appl to WO2022004857	OPTICAL FILM
enEvolv, Inc.	Z00305-401-HK	HK	HK 62021028899.4	4/8/2021	Utility: Foreign	2019800260175; CN112088212A	SENSOR SYSTEMS
Zymergen Inc.	ZYM0125-JP-02	JP	JP 2023-508117	8/6/2021	Utility: National Phase	PCT/US21/71132; WO2022032306	PROCESS FOR POLYIMIDE SYNTHESIS AND POLYIMIDES MADE THEREFROM
Zymergen Inc.	ZYM0107-US-01	US	17/619,929	12/16/2021	Utility: National Phase	PCT/US20/39469; WO2020264061	ENGINEERED BIOSYNTHETIC PATHWAY FOR PRODUCTION OF CYSTATHIONINE BY FERMENTATION
Zymergen Inc. AND Sumitomo Chemical Co. Ltd.	ZS0369-101-JP	JP	JP 2022-090316	6/2/2022	Utility: Provisional	Priority Appl to PCT/JP23/20497 (unpublished)	AGENTS AND RESINS CONTAINING ASYMMETRIC DIAMINES AND THEIR USE
Zymergen Inc.	ZS0370-101-JP	JP	JP 2022-119714	7/27/2022	Utility: Provisional	Priority Appl to PCT/JP23/26266 (unpublished)	POLYIMIDE-BASED FILM
Zymergen Inc.	ZYM0126-US-01	US	17/917,549	10/6/2022	Utility: National Phase	PCT/US21/17696; WO2022173436	ENGINEERED BIOSYNTHETIC PATHWAYS FOR PRODUCTION OF ECTOINE BY FERMENTATION
Zymergen Inc.	ZYM0016-US-01	US	18/045,098	10/7/2022	Utility: Continuation	PCT/US18/33529; WO 2018/213796	GENOMIC ENGINEERING OF BIOSYNTHETIC PATHWAYS LEADING TO INCREASED NADPH
Zymergen							
Zymergen Inc.	ZYM0056-US-01	US	17/925,593	11/15/2022	Utility: National Phase	PCT/US21/32980; WO2022245340	ENGINEERED BIOSYNTHETIC PATHWAYS FOR PRODUCTION OF DEOXYHYDROCHORIS MIC ACID BY FERMENTATION
Zymergen Inc.	ZYM0140-US-01	US	17/927,336	11/22/2022	Utility: National Phase	PCT/US21/34087; WO2021242774	METHODS OF TRANSIENT PROTEIN AND GENE EXPRESSION IN CELLS
Zymergen Inc.	ZS0360-401-US	US	18/013,075	12/27/2022	Utility: National Phase	PCT/JP21/25015; WO2022004856	OPTICAL FILM

Zymergen Inc.	ZS0361-401-US	US	18/013,078	12/27/2022	Utility: National Phase	PCT/JP21/25016; WO2022004857	OPTICAL FILM
Zymergen Inc.	ZS0362-401-US	US	18/013,081	12/27/2022	Utility: National Phase	PCT/JP21/25022; WO 2022004860	METHOD FOR PRODUCING LONG OPTICAL FILM CONTAINING POLYIMIDE-BASED RESIN
Zymergen Inc.	ZS0363-401-US	US	18/013,085	12/27/2022	Utility: National Phase	PCT/JP21/25023; WO2022004861	PRODUCING OPTICAL FILM CONTAINING POLYIMIDE RESIN
Zymergen Inc.	ZYM0125-US-02	US	18/040,293	2/2/2023	Utility: National Phase	PCT/US21/71132; WO2022032306	PROCESS FOR POLYIMIDE SYNTHESIS AND POLYIMIDES MADE THEREFROM
Zymergen Inc.	ZYM0146-US-01	US	18/020,754	2/10/2023	Utility: National Phase	PCT/US21/45748; WO2022036099	CATECHOL MODIFIERS FOR EPOXY ADHESIVES
Zymergen Inc.	ZYM0152-US-01	US	18/021,788	2/16/2023	Utility: National Phase	PCT/US21/46756; WO2022040457	ENGINEERED BIOSYNTHETIC PATHWAY FOR PRODUCTION OF 4-AMINOPHENYLETHYLAMINE BY FERMENTATION
Zymergen Inc.	ZYM0157-US-01	US	18/021,747	2/16/2023	Utility: National Phase	PCT/US21/46653; WO2022040406	HIGH-THROUGHPUT METHODS FOR THE DETECTION OF ECTOPIC INTEGRATION OF TRANSFORMING DNA
Zymergen Inc.	ZYM0152-JP-01	JP	2023-512672	2/20/2023	Utility: National Phase	PCT/US21/46756; WO2022040457	ENGINEERED BIOSYNTHETIC PATHWAY FOR PRODUCTION OF 4-AMINOPHENYLETHYLAMINE BY FERMENTATION
Zymergen Inc.	ZYM0160-US-01	US	18/022,848	2/23/2023	Utility: National Phase	PCT/US21/52628; WO2022072480	METHODS TO IDENTIFY NOVEL INSECTICIDAL PROTEINS FROM COMPLEX METAGENOMIC MICROBIAL SAMPLES
Zymergen Inc. AND Sumitomo Chemical Co. Ltd.	ZYM0171-WO-01	WO	PCT/US23/16536	3/28/2023	Utility: PCT		OPTICALLY TRANSPARENT POLYAMIDE-IMIDES
Zymergen Inc.	ZYM0181-WO-01	WO	PCT/US23/65944	4/19/2023	Utility: PCT		NOVEL BIO-BASED COMPOUND, METHOD OF FORMING THE COMPOUND, AND ADHESIVE COMPOSITIONS CONTAINING THE NOVEL COMPOUND
Zymergen Inc. AND Sumitomo Chemical Co. Ltd.	ZYM0170-WO-01	WO	PCT/US23/19198	4/20/2023	Utility: PCT		OPTICALLY TRANSPARENT POLYAMIDEIMIDE
Zymergen Inc.	ZYM0059-US-01	US	18/033,309	4/21/2023	Utility: National Phase	PCT/US21/72020; WO2023075814	ENGINEERED BIOSYNTHETIC PATHWAY FOR PRODUCTION OF P-COUMARIC ACID BY FERMENTATION
Zymergen Inc. AND Sumitomo Chemical Co. Ltd.	ZS0369-301-WO	WO	PCT/JP23/20497	6/1/2023	Utility: PCT		AGENTS AND RESINS CONTAINING ASYMMETRIC DIAMINES AND THEIR USE
Zymergen Inc.	ZYM0035-US-01	US	18/349,895	7/10/2023	Utility: Continuation	17/048,553; US20210180096	ENGINEERED BIOSYNTHETIC PATHWAYS FOR PRODUCTION OF

							HISTAMINE BY FERMENTATION
Zymergen Inc.	ZS0370-301-WO	WO	PCT/JP23/26266	7/18/2023	Utility: PCT		POLYIMIDE-BASED FILM
Zymergen Inc.	ZYM0183-WO-01	WO	PCT/US23/71987	8/10/2023	Utility: PCT		ADHESIVE COMPOSITION
Zymergen Inc.	ZYM0198-WO-01	WO	PCT/US23/72454	8/18/2023	Utility: PCT		ADHESIVE COMPOSITION
Lodo Therapeutics Corporation	Z00312-401-US	US	18/547,321	8/21/2023	Utility: National Phase	PCT/US22/17263; WO2022178403	HEXADEPSIPEPTIDE COMPOUNDS AND METHODS OF USING THE SAME
Zymergen Inc.	ZYM0167-WO-01	WO	PCT/US23/30858	8/22/2023	Utility: PCT		PROTEINS FOR CROSS-LINKING BIOPOLYMERS
Zymergen Inc. AND Sumitomo Chemical Co. Ltd.	ZYM0172-US-01	US	18/548,853	9/1/2023	Utility: National Phase	PCT/US22/70866; WO2022187797	OPTICALLY TRANSPARENT POLYAMIDE-IMIDES
Zymergen Inc. AND Sumitomo Chemical Co. Ltd.	ZYM0172-JP-01	JP	TBD	9/4/2023	Utility: National Phase	PCT/US22/70866; WO2022187797	OPTICALLY TRANSPARENT POLYAMIDE-IMIDES
Zymergen Inc. AND Sumitomo Chemical Co. Ltd.	ZYM0172-CN-01	CN	TBD	9/5/2023	Utility: National Phase	PCT/US22/70866; WO2022187797	OPTICALLY TRANSPARENT POLYAMIDE-IMIDES

Trademarks:

See Schedule 3

Registered Copyrights

None.

Domain Names:

- zymergen.com
- zymergen.co.uk
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- zymergen.net
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- radiantgenomics.com
- enevol.com
- emeraldcitybio.net
- emeraldcitybio.com
- 1776Pharma.com
- 1776pharmaceuticals.com
- biofacturing.net
- biofacturing.org
- lodopharma.net
- lodopharma.com
- lodotherapeutics.net

- lodotherapeutics.com

Social media accounts:








- www.linkedin.com/company/zymergen/
- www.twitter.com/zymergen

Schedule 3

[See Attached]

Attachment 3 8(a)






Trademark Name	Jurisdiction	Status	IGT Reference	Classes / Goods	Application Number	Filing Date	Registration Number	Registration Date
Design 	Australia	Registered	256572	01 Int. chemicals; microbes 42 Int. research and development in the biotechnology field; product development; data automation and collection; service using instruments and sensors to evaluate, analyze and collect data in the field of genome design life cycles	1787731	08/04/2016	1787731	11/30/2016
HVALIN	Australia	Registered	317166	01 Int. flexible polyimide and homogeneous polymer blend optical thin films coatings; flexible polyimide and homogeneous polymer blend thin film coatings for use in the manufacture of flexible circuitry and optical stacks	2071400	02/25/2020	2071400	07/06/2020
STYLIZED Z	Australia	Registered	286600	01 Int. biologically-derived industrial chemicals; engineered microbes for use in the production of industrial chemicals 42 Int. research and development in the biotechnology field; product development; data automation and collection; service using instruments and sensors to evaluate, analyze and collect data in the field of genome design life cycles	1957968	09/27/2018	1957968	06/19/2019
ZYMENGEN	Australia	Registered	256571	42 Int. research and development in the biotechnology field; product development; data automation and collection; service using instruments and sensors to evaluate, analyze and collect data in the field of genome design life cycles	1787729	08/04/2016	1787729	08/04/2016
Design 	Brazil	Registered	256575	01 Int. chemicals; microbes	911523170	08/24/2016	911523170	06/19/2018
Design 	Brazil	Registered	256576	42 Int. research and development in the biotechnology field; product development; data automation and collection; service using instruments and sensors to evaluate, analyze and collect data in the field of genome design life cycles	911523154	08/24/2016	911523154	06/19/2018
STYLIZED Z	Brazil	Registered	286601	01 Int. biologically-derived industrial chemicals; engineered microbes for use in the production of industrial chemicals	916035883	10/05/2018	916035883	08/20/2019
STYLIZED Z	Brazil	Registered	286602	42 Int. research and development in the biotechnology field; product development; data automation and collection; service using instruments and sensors to evaluate, analyze and collect data in the field of genome design life cycles	916036081	10/05/2018	916036081	08/20/2019
ZYMENGEN	Brazil	Registered	252387	42 Int. research and development in the biotechnology field; product development; data automation and collection; service using instruments and sensors to evaluate, analyze and collect data in the field of genome design life cycles	910840431	03/31/2016	910840431	04/17/2018
Design 	Canada	Registered	256577	01 Int. biologically-derived industrial chemicals and engineered microbes for use in the production of industrial chemicals from industrial fermentation in the field of genome design 42 Int. research and development in the biotechnology field; product development; data automation and collection; service using instruments and sensors to evaluate, analyze and collect data in the field of genome design life cycles	1794218	08/03/2016	TMAI067107	12/10/2019
HVALIN	Canada	Filed	317168	01 Int. flexible polyimide and homogeneous polymer blend optical thin films coatings; flexible polyimide and homogeneous polymer blend thin film coatings for use in the manufacture of flexible circuitry and optical stacks	2013697	02/25/2020		





Trademark Name	Jurisdiction	Status	IGT Reference	Classes / Goods	Application Number	Filing Date	Registration Number	Registration Date
STYLIZED Z	Canada	Registered	286603	01. Int. biologically-derived industrial chemicals and engineered microbes for use in the production of industrial chemicals from industrial fermentation in the field of genome design	1927256	10/25/2018	1126532	04/22/2022
				42. Int. research and development in the biotechnology field; product development; data automation and collection service using instruments and sensors to evaluate, analyze and collect data in the field of genome design lifecycle				
ZYMENGEN	Canada	Registered	252388	42. Int. research and development in the biotechnology field; product development; data automation and collection service using instruments and sensors to evaluate, analyze and collect data in the field of genome design lifecycle	1776063	04/07/2016	TMA1020392	04/30/2019
360 DEGREE STRENGTH	China	Registered	353037	01. Int. Polyimides, polyamide, synthetic resins, unprocessed; unprocessed synthetic resins for use in the manufacture of molding compounds; acrylic polymer powder; unprocessed artificial resins as raw materials in the form of powders, liquids or pastes; unprocessed plastic materials in powder, liquid or paste form; plasticizers	63615169	03/29/2022	63615169	11/14/2022
Design	China	Registered	256578	01. Int. industrial chemicals; cultures of microorganisms, other than for medical and veterinary use; preparations of microorganisms, other than for medical and veterinary use; bacterial preparations other than for medical and veterinary use; bacteriological preparations other than for medical and veterinary use	21348948	09/20/2016	21348948	11/14/2017
								
Design	China	Registered	256579	42. Int. product development, biological research, biology done service; technical research; technical project studies; scientific research; chemical research; off-site data backup; electronic data storage	21348948	09/20/2016	21348948	11/14/2017
								
SYRKO	China	Registered	348024	01. Int. polyimides, polyamide, synthetic resins, unprocessed; unprocessed synthetic resins for use in the manufacture of molding compounds; acrylic polymer powder; unprocessed artificial resins as raw materials in the form of powders, liquids or pastes; unprocessed plastic materials in powder, liquid or paste form; plasticizers	61407429	12/15/2021	61407429	06/07/2022
STYLIZED Z	China	Registered	295214	01. Int. industrial chemicals; cultures of microorganisms, other than for medical and veterinary use; preparations of microorganisms, other than for medical and veterinary use	38114364	05/10/2019	38114364	09/28/2021
								
STYLIZED Z (Approved Defensive Services)	China	Registered	286605	42. Int. Data conversion of computer programs and data [not physical conversion]; electronic data storage.	33962118	10/11/2018	33962118	12/14/2020
								
STYLIZED Z & ZYMENGEN Design (1st Application)	China	Published	333274	01. Int. Polymer beads for production and processing; adhesives and glue for use in industry; food preservation and antiseptic chemicals; food preservatives; industrial chemicals; plant growth regulators for agricultural purposes; soil amendments for agricultural purposes; agricultural fertilizer; controlled release fertilizer for gardening; soil conditioner for gardening; agricultural chemicals, except fungicides, herbicides, insecticides and parasitocides; horticultural chemicals, except fungicides, herbicides, insecticides and parasitocides; chemicals for use in forestry, except fungicides, herbicides, insecticides and parasitocides; other than for medical or veterinary purposes; chemical soil conditioners; chemical additive for food manufacturing	50819335	10/29/2020		
								
STYLIZED Z & ZYMENGEN Design (Divided Approved Core Goods)	China	Registered	344802	01. Int. chemical coatings for production of printed circuit boards	50819335A	07/27/2021	50819335A	12/07/2021
								


Trademark Name	Jurisdiction	Status	IGT Reference	Classes / Goods	Application Number	Filing Date	Registration Number	Registration Date
STYLIZED Z & ZYMIRGEN Design (2nd Application)	China	Registered	344803	01. Int. Polymer beads for production and processing; adhesives and glue for use in industry; chemical coatings for production of printed circuit boards; food preservation and antiseptic chemicals; food preservatives; industrial chemicals; plant growth regulators for agricultural purposes; soil amendments for agricultural purposes; agricultural fertilizer; controlled release fertilizer for gardening; soil conditioner for gardening; agricultural chemicals, except fungicides, herbicides, insecticides and parasiticides; horticultural chemicals, except fungicides, herbicides, insecticides and parasiticides; chemicals for use in forestry, except fungicides, herbicides, insecticides and parasiticides; adjuvants, other than for medical or veterinary purposes; chemical soil conditioners; chemical additive for food manufacturing	58142092	08/02/2021	58142092	04/14/2023
STYLIZED Z & ZYMIRGEN Design	China	Registered	333275	02. Int. coatings [paints]; water-repellent paints	50820815	10/29/2020	50820815	01/28/2022
STYLIZED Z & ZYMIRGEN Design	China	Registered	340703	03. Int. moisturizing lotion; skin care cream; skin cleanser; skin care preparation; non-medical	56006050	05/12/2021	56006050	08/14/2022
STYLIZED Z & ZYMIRGEN Design	China	Registered	340705	09. Int. diaphragms for scientific apparatus; protective film for LCD	56930176	06/16/2021	56930176	02/21/2023
STYLIZED Z & ZYMIRGEN Design	China	Registered	333278	17. Int. production of polymer films for processing; polymer film for circuit manufacturing; plastic film for electrical insulation; polyurethane films against moisture	50816078	10/29/2020	50816078	01/14/2022
STYLIZED Z & ZYMIRGEN Design	China	Registered	333279	31. Int. mixed animal feeds; agricultural seeds	50845602	10/29/2020	50845602	02/28/2022
STYLIZED Z & ZYMIRGEN Design (1st Application)	China	Registered	333280	42. Int. research and develop new plastic raw materials for third parties; product testing; technical advice related to research on food and dietary supplements; research in the field of food; drug research services; pharmaceutical research; environmental protection research	50824201	10/29/2020	50824201	01/14/2022
ZYMIRGEN	China	Registered	252389	42. Int. product development; biological research; biology clone service; scientific research; scientific research and development; gene screening for science purpose; electronic data storage; data conversion of computer programs and data [not physical conversion]; off-site data backup	19472005	03/30/2016	19472005	05/14/2017
ZYMIRGEN H-VIALINE	China	Registered	326896	01. Int. chemical raw materials for deposition of thin films on semiconductor wafers in semiconductor production; chemical coating for production of printed circuit boards	50048096	09/25/2020	50048096	05/07/2021
ZYMIRGEN H-VIALINE	China	Registered	327231	17. Int. polymer film for circuit manufacturing; polymer film for production and processing; electronic control photo plastic film; insulating paint	50048097	09/25/2020	50048097	05/14/2021


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Trademark Name	Jurisdiction	Status	IGT Reference	Classes / Goods	Application Number	Filing Date	Registration Number	Registration Date
360 DEGREE STRENGTH	European Union	Registered	353038	01. Int. chemicals for use in industry, chemistry and photography; powdered chemical substances for use in industry, chemistry and photography; homogeneous polyimide powders or filaments made from polyimide powders for use in 3D printing, including selective laser sintering or filamenting; polyimides for use as feedstock for 3D printing; polyimide powders for use in the manufacture of prototypes or custom parts for the automobile industry and the aerospace industry; polyimide powders for making custom made medical devices such as hearing aids; polyimide powders for use in the consumer industry to 3D printing of objects at home	18659056	02/21/2022	18659056	09/01/2022
	European Union	Registered	256580	01. Int. chemicals; microbes	15722069	08/03/2016	15722069	11/28/2016
SPRFO	European Union	Registered	349869	01. Int. Chemicals for use in industry, coatings and powders for use in industry, homogeneous polyimide powders or filaments made from polyimide powders for use in 3D printing, including selective laser sintering or filamenting; polyimides for use as feedstock for 3D printing; polyimide powders for use in the manufacture of prototypes or custom parts for the automobile industry and the aerospace industry; polyimide powders for making custom made medical devices such as hearing aids; polyimide powders for use in the consumer industry to 3D printing of objects at home	18620690	12/13/2021	18620690	04/27/2022
STYLIZED Z	European Union	Registered	286606	01. Int. biologically-derived industrial chemicals; engineered microbes for use in the production of industrial chemicals	17962008	09/27/2018	17962008	02/06/2019
	European Union	Registered	252390	42. Int. research and development in the biotechnology field; product development; data automation and collection service using instruments and sensors to evaluate, analyze and collect data in the field of genome design life cycles	15280001	02/29/2016	15280001	08/04/2016
ZMIEGEN HYALINE	European Union	Registered	318017	01. Int. flexible polyimide and homogeneous polymer blend optical thin films coatings; flexible polyimide and homogeneous polymer blend thin film coatings for use in the manufacture of flexible circuitry and optical stacks	18233441	04/30/2020	18233441	08/25/2020
BUBBLE + BLOOM	Hong Kong	Registered	339087	05. Int. insect repellent	305674681	07/02/2021	305674681	07/02/2021
	India	Registered	260941	42. Int. research and development in the biotechnology field; product development; data automation and collection service using instruments and sensors to evaluate, analyze and collect data in the field of genome design life cycles	3352305	08/01/2016	3352305	02/07/2018
HYALINE	India	Registered	320542	01. Int. flexible polyimide and homogeneous polymer blend optical thin films coatings; flexible polyimide and homogeneous polymer blend thin film coatings for use in the manufacture of flexible circuitry and optical stacks	4494791	02/02/2020	4494791	12/02/2020
STYLIZED Z	India	Registered	286607	01. Int. biologically-derived industrial chemicals; engineered microbes for use in the production of industrial chemicals	3984449	10/26/2018	2148085	04/19/2019
	India	Registered	286608	42. Int. research and development in the biotechnology field; product development; data automation and collection service using instruments and sensors to evaluate, analyze and collect data in the field of genome design life cycles	3984450	10/26/2018	3984450	12/21/2019
	India	Registered	252391	42. Int. research and development in the biotechnology field; product development; data automation and collection service using instruments and sensors to evaluate, analyze and collect data in the field of genome design life cycles	3244333	04/26/2016	3244333	03/12/2017
ZMIEGEN	India	Registered						

Trademark Name	Jurisdiction	Status	IGT Reference	Classes / Goods	Application Number	Filing Date	Registration Number	Registration Date
360 DEGREE STRENGTH	Japan	Registered	353039	01. Int. homogeneous polyimide powders or synthetic resins for filaments made from polyimide powders for use in 3D printing, including selective laser sintering or filamenting; homogeneous polyimide powders for use in 3D printing, synthetic resins for filaments made from polyimide powders for use in 3D printing, homogeneous polyimide powders; synthetic resins for filaments made from polyimide powder; polyimides for use as feedstock for 3D printing; polyimide powders for use in the manufacture of prototypes or custom parts for the automobile industry and the aerospace industry; polyimide powders for making custom made medical devices such as hearing aids; polyimide powders for use in the consumer industry to 3D printing of objects at home; polyimide powders, polyimide resin, plastics [raw materials]; chemicals; industrial chemicals	2022-039050	04/05/2022	6636327	11/04/2022
	Japan	Registered	256582	01. Int. chemicals, microbes, microorganisms (preparations of microorganisms) other than for medical and veterinary use 35. Int. systematization of data in computer databases, systemization of information into computer databases 42. Int. research and development in the biotechnology field; product development, research and development for others, product design and development services, product information in the field of product development, research services for the development of new products	2016-33867	09/04/2016	6004657	12/15/2017
HYALINE	Japan	Registered	320543	01. Int. flexible polyimide and homogeneous polymer blend optical thin films coatings; flexible polyimide and homogeneous polymer blend thin film coatings for use in the manufacture of flexible circuitry and optical stacks	2020-049311	05/01/2020	6390039	05/17/2021
STYLIZED Z	Japan	Registered	286609	01. Int. biologically-derived industrial chemicals; engineered microbes for use in the production of industrial chemicals	2018-122004	09/27/2018	6223863	02/07/2020
	Japan	Registered	252392	35. Int. automation, collection, systematization, compilation and analysis of data in the field of genome design; lifecycles stored in computer databases; evaluation, analysis and collection of data in the field of genome lifecycles 42. Int. research and development in the biotechnology field; product development, data automation and collection service using instruments and sensors to evaluate, analyze and collect data in the field of genome lifecycles; research and development for others; product design and development services; product information in the field of product development; research services for the development of new products	2016-34961	03/29/2016	5878017	09/02/2016
ZMIRGEN	Japan	Registered	256574	01. Int. microorganisms for scientific or laboratory purposes, microorganisms other than for medical and veterinary use, chemical preparations for analyses in laboratories except for medical or veterinary purposes, chemicals for use in agriculture, horticulture and forestry except for fungicides, herbicides, insecticides and parasitocides, chemicals used in industry and science 05. Int. chemical preparations for analyses in laboratories for medical or veterinary purpose, chemicals for use in agriculture, horticulture and forestry for fungicides, herbicides, insecticides and parasitocides 42. Int. research and development in the biotechnology field; product development, data automation and collection service using instruments and sensors to evaluate, analyze and collect data in the field of genome design lifecycles	40-2016-0070382	09/08/2016	40-1307840	11/28/2017
	Korea	Registered	286610	01. Int. biologically-derived industrial chemicals; engineered microbes for use in the production of industrial chemicals 42. Int. research and development in the biotechnology field; product development, computerized data automation and collection service using instruments and sensors to evaluate, analyze and collect data in the field of genome design lifecycles	40-2018-0136120	10/04/2018	40-1510361	08/14/2019
	Korea	Registered	256573	42. Int. research and development in the biotechnology field; product development, data automation and collection service using instruments and sensors to evaluate, analyze and collect data in the field of genome design lifecycles	40-2016-0070371	09/08/2016	40-1269685	07/17/2017
ZMIRGEN	Korea	Registered	339088	05. Int. insect repellent	40202115915V	07/05/2021	40202115915V	11/25/2021
BUBBLE + BLOOM	Singapore	Registered	345137	05. Int. anti-insect spray, insect repellents	40202118576R	08/05/2021	40202118576R	09/05/2021
HALO	Singapore	Registered						

Trademark Name	Jurisdiction	Status	IGT Reference	Classes / Goods	Application Number	Filing Date	Registration Number	Registration Date
360 DEGREE STRENGTH	United Kingdom	Registered	353041	01. Int. Chemicals for use in industry, chemistry and photography; powders for use in industry, chemistry and photography; homogeneous polyimide powders or filaments made from polyimide powders for use in 3D printing; including selective laser sintering or filamenting; polyimides for use as feedstock for 3D printing; polyimide powders for use in the manufacture of prototypes or custom parts for the automobile industry and the aerospace industry; polyimide powders for making custom made medical devices such as hearing aids; polyimide powders for use in the consumer industry to 3D printing of objects at home	3757349	02/21/2022	3757349	05/20/2022
	United Kingdom	Registered	331696	01. Int. chemicals; microbes	UK00915722069	08/03/2016	UK0091572206	11/28/2016
SPYRO	United Kingdom	Registered	349870	42. Int. research and development in the biotechnology field; product development; data automation and collection service using instruments and sensors to evaluate; analyze and collect data in the field of genome design lifecycles	3732107	12/13/2021	UK0000373210	06/03/2022
STYLIZED Z	United Kingdom	Registered	286611	01. Int. chemically-derived industrial chemicals; engineered microbes for use in the production of industrial chemicals	3341426	08/27/2018	3341426	02/22/2019
N	United Kingdom	Registered	331697	35. Int. data collection service using instruments and sensors to collect data in the field of genome design lifecycles 42. Int. research and development in the biotechnology field; product development; data automation service using instruments and sensors to evaluate; analyze data in the field of genome design lifecycles	UK00917962008	08/27/2018	UK0091796200	02/06/2019
STYLIZED Z	United Kingdom	Registered	331697	01. Int. biologically-derived industrial chemicals; engineered microbes for use in the production of industrial chemicals	3193734	10/28/2016	3193734	02/03/2017
N	United Kingdom	Registered	259865	35. Int. data automation and collection services in the field of genetics and genome design 42. Int. research and development in the biotechnology field; product development	UK00915280001	02/29/2016	UK0091528000	08/04/2016
ZMIEBGEN	United Kingdom	Registered	331695	42. Int. research and development in the biotechnology field; product development; data automation and collection service using instruments and sensors to evaluate; analyze and collect data in the field of genome design lifecycles	UK00915280001	02/29/2016	UK0091528000	08/04/2016
ZMIEBGEN	United Kingdom	Registered	331695	42. Int. research and development in the biotechnology field; product development; data automation and collection service using instruments and sensors to evaluate; analyze and collect data in the field of genome design lifecycles	UK00915280001	02/29/2016	UK0091528000	08/04/2016
ZMIEBGEN H-YALINE	United Kingdom	Registered	318016	01. Int. flexible polyimide and homogeneous polymer blend optical thin films coatings; flexible polyimide and homogeneous polymer blend thin film coatings for use in the manufacture of flexible circuitry and optical stacks	3485607	04/30/2020	3485607	08/11/2020
ZMIEBGEN H-YALINE	United Kingdom	Registered	331698	01. Int. flexible polyimide and homogeneous polymer blend optical thin films coatings; flexible polyimide and homogeneous polymer blend thin film coatings for use in the manufacture of flexible circuitry and optical stacks	UK00918233441	04/30/2020	UK0091823344	08/25/2020
H-YALINE	United States	Registered	322027	01. Int. flexible polyimide and homogeneous polymer blend optical thin films coatings; flexible polyimide and homogeneous polymer blend thin film coatings for use in the manufacture of flexible circuitry and optical stacks	90-016983	06/23/2020	6450225	08/10/2021
STYLIZED Z	United States	Registered	275017	01. Int. biologically-derived industrial chemicals; engineered microbes for use in the production of industrial chemicals 42. Int. research and development in the biotechnology field; product development; data automation and collection service using instruments and sensors to evaluate; analyze and collect data in the field of genome design lifecycles	87-787941	02/07/2018	6502572	09/28/2021

Trademark Name	Jurisdiction	Status	IGT Reference	Classes / Goods	Application Number	Filing Date	Registration Number	Registration Date
STYLIZED Z 	United States	Registered	321151	01. Int. coatings for use in the electronics industry; flexible polyimide and homogeneous polymer blend optical thin films coatings; flexible polyimide and homogeneous polymer blend thin film coatings for use in the manufacture of flexible circuitry and optical stacks 09. Int. electro-optical films and substrates for use in forming light-handling devices; optical films for use in lighting and LED light source applications; optical films for use in the control and management of light sources; optical films for reflecting light; optical film for liquid crystal display backlight; diffusion film for liquid crystal display backlight; reflective film for liquid crystal display backlight; optical films for use in light emitting diode (LED) display applications 17. Int. synthetic polymer thin film in the nature of electrical insulation for use in the manufacture of electronics; circuitry films, namely, polymer films used for manufacturing electronic circuits	88-984516	05/21/2020	6925433	12/13/2022
ZMIRGEN	United States	Registered	365890	01. Int. coatings for use in the electronics industry; flexible polyimide and homogeneous polymer blend optical thin films coatings; flexible polyimide and homogeneous polymer blend thin film coatings for use in the manufacture of flexible circuitry and optical stacks 09. Int. electro-optical films and substrates for use in forming light-handling devices; optical films for use in lighting and LED light source applications; optical films for use in the control and management of light sources; optical films for reflecting light; optical film for liquid crystal display backlight; diffusion film for liquid crystal display backlight; reflective film for liquid crystal display backlight; optical films for use in light emitting diode (LED) display applications 17. Int. synthetic polymer thin film in the nature of electrical insulation for use in the manufacture of electronics; circuitry films, namely, polymer films used for manufacturing electronic circuits	88-984551	05/21/2020	6925434	12/13/2022
ZMIRGEN	United States	Allowed	321150	01. Int. polymers, biopolymers, polymeric additives and biopolymeric additives for use in the manufacture of industrial products, consumer and household products, sealants or packaging, adhesives for use in industry, chemical products for the fresh-keeping and preserving of food; food preservatives; biologically-derived industrial chemicals for use in the manufacture of pharmaceutical preparations, plastics, cosmetics, personal care products, pet and companion care products, coatings, adhesives, and lubricants; chemicals used in agriculture, horticulture and forestry except fungicides, herbicides, insecticides, and parasiticides; adjuvants other than for medical or veterinary purposes; soil amendments; Non-nutritional feed additives for use in manufacturing animal feed; chemical products for the fresh-keeping and preserving of animal feeds 02. Int. protective coatings for electronic devices 03. Int. polymers, biopolymers, polymeric additives and biopolymeric additives for use in the manufacture of industrial products, consumer and household products, sealants or packaging; adhesives for use in industry; coatings for use in the electronics industry; chemical products for the fresh-keeping and preserving of food; food preservatives; biologically-derived industrial chemicals for use in the manufacture of pharmaceutical preparations, plastics, cosmetics, personal care products, pet and companion care products, coatings, adhesives, and lubricants; chemicals used in agriculture, horticulture and forestry except fungicides, herbicides, insecticides, and parasiticides; adjuvants other than for medical or veterinary purposes; soil amendments; Non-nutritional feed additives for use in manufacturing animal feed; chemical products for the fresh-keeping and preserving of animal feeds; flexible polyimide and homogeneous polymer blend optical thin films coatings; flexible polyimide and homogeneous polymer blend thin film coatings for use in the manufacture of flexible circuitry and optical stacks 05. Int. fungicides; herbicides, insecticides, pesticides and fungicides for home, garden and lawn use and for professional use; pesticides, preparations for destroying vermin, fungicides, herbicides and insecticides; insect repellents 31. Int. mixed animal feeds; agricultural seeds	88-928025	05/21/2020		
ZMIRGEN	United States	Registered	244583	42. Int. research and development in the field of genome design; life cycles and collect data in the field of genome design; life cycles 42. Int. research and development in the field of science and material science; testing and research in the field of agriculture, livestock, nutrition, and pet and companion animal nutrition; scientific research relating to the impact of consumer and industrial products on environmental preservation; research and development in the field of plastic alternatives, upcycling, and degradation; research and development relating to biologically-derived packaging and recycling, upcycling, degradation and biodegradation of packaging; research and development relating to foods and dietary supplements	86-818312	11/12/2015	4993038	07/05/2016

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