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| PATENT ASSIGNMENT COVER SHEET |
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Electronic Version v1.1
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EPAS ID: PAT6087723

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| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | ASSIGNMENT |
| CONVEYING PARTY DATA | |
| Name | Execution Date |
| XUQIU TAN | 07/24/2013 |
| ARNE I. SOLBAK | 07/29/2013 |
| VERENIUM CORPORATION | 11/01/2014 |
| RECEIVING PARTY DATA | |
| Name: | BASF ENZYMES LLC |
| Street Address: | 3550 JOHN HOPKINS COURT |
| City: | SAN DIEGO |
| State/Country: | CALIFORNIA |
| Postal Code: | 92121 |
| PROPERTY NUMBERS Total: 1 | |
| Property Type | Number |
| Application Number: | 16714393 |
| CORRESPONDENCE DATA | |
| Fax Number: | |
| <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: | 8584318585 |
| Email: | rick.delatorre@basf.com |
| Correspondent Name: | RICK DE LA TORRE |
| Address Line 1: | 3550 JOHN HOPKINS CT. |
| Address Line 4: | SAN DIEGO, CALIFORNIA 92121 |
| ATTORNEY DOCKET NUMBER: | 160859US04 |
| NAME OF SUBMITTER: | RICK DE LA TORRE |
| SIGNATURE: | /Rick de la Torre/ |
| DATE SIGNED: | 05/01/2020 |
| Total Attachments: 10 | |
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This Assignment effective the 12th of March 2013

ASSIGNMENT

This Assignment by:

Xuqiu Tan, of 3550 John Hopkins Court, San Diego, California 92121, United States of America and **Arne I. Solbak**, of 3550 John Hopkins Court, San Diego, California 92121, United States of America (hereinafter referred to as the "Assignors");

WHEREAS, the Assignors have invented certain new and useful inventions and/or improvements (hereinafter referred to as the "Inventions") set forth in and the subject of

Provisional Patent Application No. **61/777,139**, filed **12-March-2013**, in the United States Patent and Trademark Office under 35 U.S.C. §111(b), entitled "**PHYTASE**" naming the Assignors listed above as inventors (hereinafter referred to as the "Patent Application");

WHEREAS,

VERENIUM CORPORATION, a corporation duly organized under and pursuant to the laws of the state of Delaware, and having a mailing address and a place of business at 3550 John Hopkins Court, San Diego, California 92121, United States of America is desirous of acquiring the entire right, title and interest throughout the world in and to:

the Inventions,

the Patent Application,

any national or regional phase patent applications arising from the Inventions or Patent Application, including, but not limited to, applications under the European Patent Convention and national patent applications in the United States of America, including, any provisional applications converted to nonprovisional applications, divisionals, continuations, and continuations-in-part applications, or any other patent applications claiming the benefit of priority of the Patent Application (hereinafter collectively referred to with the Patent Application as the "Patent Applications"),

any letters patents issued or granted from the Patent Applications by any national, regional, or international patent-granting authority, including the United States Patent and Trademark Office, including any reexamination and reissue applications of the letters patents, and any divisionals, continuations, or continuations-in-part applications of such reexamination or reissue applications (hereinafter referred to as the "Letters Patents"), and

all convention or treaty rights arising from the Inventions, Patent Applications, or Letters Patents, including without limitation, all rights under the Paris Convention for the Protection of Industrial Property, as currently revised and amended, including, but not limited to, utility model and design protection.

NOW, THEREFORE, in consideration of good, valuable, and sufficient consideration, the receipt of which is hereby acknowledged,

the Assignors have and by these presents do sell, assign, transfer, and set over unto **VERENIUM CORPORATION**, its successors, legal representatives and assigns (hereinafter collectively referred to as the "Assignee"), the entire and exclusive right, title, and interest throughout the world in and to the Inventions, Patent Applications, Letters Patents, and related rights to be vested, held, enjoyed by and for the use of the Assignee, to the full end of the terms for which each of Letters Patents may be granted, as fully and entirely as the same would have been held and enjoyed by the Assignors had this Assignment not been made;

AND for the same consideration, the Assignors hereby covenant and agree to and with the Assignee that,

Assignee is the sole and lawful owner of the entire right, title, and interest throughout the world in and to the Inventions, Patent Applications, any Letters Patents; and that the same are unencumbered and that the Assignee has good and full right and lawful authority to sell and convey the same in the manner herein set forth;

AND for the same consideration, Assignors hereby covenant and agree to and with Assignee, that whenever counsel of the Assignee shall advise that any proceeding in connection with the Inventions, Patent Applications, Letters Patents, and related rights, including any proceeding before the USPTO, is lawful and desirable, to effectuate fully this Assignment,

the Assignors shall sign all papers and documents, take all lawful oaths and do all acts necessary or required for the procurement, maintenance, enforcement, or defense of the Letters Patents including further reissue applications, assignments, and preliminary statements, and to fully and properly vest, perfect, record, and maintain the rights and title in the Letters Patents, without charge by the Assignors to the Assignee, but at reasonable cost and expense to the Assignee.

If for any reason the Assignee is unable to secure a signature to any papers or documents described in the immediately preceding section, each Assignor hereby irrevocably designates and appoints the Assignee and its representatives as the Assignor's agents and attorneys-in-fact to execute such papers or documents on behalf and instead of the Assignor, all with the same legal force and effect as if executed by the Assignor.

Each Assignor hereby authorizes the Assignee to apply in all countries and patent-granting authorities in each of Assignor's name or in the name of the Assignee for the Patent Applications and related rights.

The Assignors hereby request and authorize the Assignee or the Assignee's authorized representatives in the United States or abroad to complete hereafter this Assignment by inserting, as needed, the serial numbers, filing dates, patent numbers, or grant dates for the applications or patents identified above, and to correct any clerical errors that may be necessary or desirable to record this Assignment.

Application No.:
61/777,139

The Assignors hereby request the Commissioner of Patents or the Director of the U.S. Patent and Trademark Office to issue Letters Patents of the United States of America to the Assignee for the sole use of the Assignee.

This Assignment constitutes the entire agreement with respect to its subject matter and supersedes any prior or contemporaneous oral or written agreements concerning the subject matter. This Assignment shall be governed in all respects by the laws of the United States and the laws of the state of California. Each of the parties irrevocably consents, jointly, and severally, to personal jurisdiction of the federal and state courts located in California.

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

[Execution Page to Follow]

EXECUTION OF ASSIGNMENT

In witness whereof, I hereto set my hand and seal at San Diego, California
(city, state where executed)

this 24 day of July 2013


XUQIU TAN

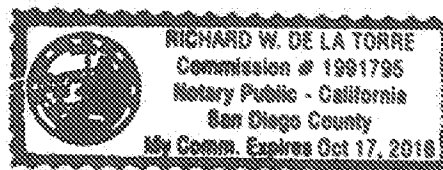
ACKNOWLEDGMENT

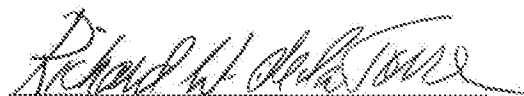
State of CALIFORNIA)
County of SAN DIEGO)

On 24 July 2013, before me, Richard W. de la Torre, Notary Public, personally appeared Xuqiu TAN, who proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that she executed the same in her authorized capacity, and that by her signature on the instrument the person or the entity upon behalf of which the person acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.





Richard W. de la Torre

NOTARY PUBLIC SEAL

EXECUTION OF ASSIGNMENT

In witness whereof, I hereto set my hand and seal at San Diego, California
(city, state where executed)

this 29th day of July 2013


ARNE L. SOLBAK

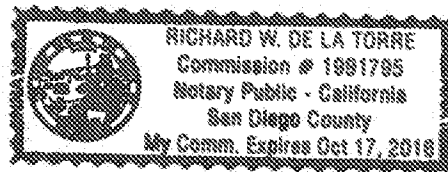
ACKNOWLEDGMENT

State of CALIFORNIA)
County of SAN DIEGO)

On 29-JULY-2013, before me, Richard W. de la Torre, Notary Public, personally appeared Arne L. SOLBAK, who proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the instrument the person or the entity upon behalf of which the person acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.




Richard W. de la Torre

NOTARY PUBLIC SEAL

Delaware

PAGE 2

The First State

I, JEFFREY W. BULLOCK, SECRETARY OF STATE OF THE STATE OF DELAWARE DO HEREBY CERTIFY THAT THE ATTACHED IS A TRUE AND CORRECT COPY OF CERTIFICATE OF FORMATION OF "BASF ENZYMES LLC" FILED IN THIS OFFICE ON THE TWENTY-FOURTH DAY OF OCTOBER, A.D. 2014, AT 6:17 O'CLOCK P.M.

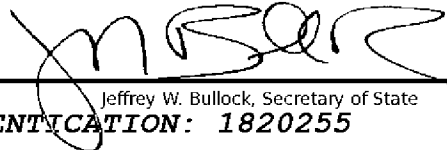
AND I DO HEREBY FURTHER CERTIFY THAT THE EFFECTIVE DATE OF THE AFORESAID CERTIFICATE OF FORMATION IS THE FIRST DAY OF NOVEMBER, A.D. 2014, AT 12:01 O'CLOCK A.M.

2319755 8100V

141334007

You may verify this certificate online
at corp.delaware.gov/authver.shtml




Jeffrey W. Bullock, Secretary of State
AUTHENTICATION: 1820255

DATE: 10-29-14

PATENT
REEL: 052547 FRAME: 0228

STATE of DELAWARE
LIMITED LIABILITY COMPANY
CERTIFICATE of FORMATION
Of
BASF ENZYMES LLC


This Certificate of Formation of **BASF Enzymes LLC** ("**LLC**"), dated as of October 24, 2014, is being duly executed and filed by Debra L. Goldsmith, as an authorized person, to form a limited liability company under the Delaware Limited Liability Company Act (Del. Code Ann. Tit. 6, §§ 18-201).

FIRST. The name of the limited liability company formed hereby is BASF Enzymes LLC.

SECOND. The address of its registered office in the State of Delaware is Corporation Trust Center, 1209 Orange Street, in the City of Wilmington, County of New Castle, 19801. The name of its registered agent at such address is The Corporation Trust Company.

THIRD. The formation of the limited liability company shall be effective on November 1, 2014 at 12:01 a.m.

IN WITNESS WHEREOF, the undersigned has executed and filed this Certificate of Formation as of the date first above written.

By: 
Debra L. Goldsmith
Authorized Person

Delaware

PAGE 1

The First State

I, JEFFREY W. BULLOCK, SECRETARY OF STATE OF THE STATE OF DELAWARE DO HEREBY CERTIFY THAT THE ATTACHED IS A TRUE AND CORRECT COPY OF THE CERTIFICATE OF CONVERSION OF A DELAWARE CORPORATION UNDER THE NAME OF "VERENIUM CORPORATION" TO A DELAWARE LIMITED LIABILITY COMPANY, CHANGING ITS NAME FROM "VERENIUM CORPORATION" TO "BASF ENZYMES LLC", FILED IN THIS OFFICE ON THE TWENTY-FOURTH DAY OF OCTOBER, A.D. 2014, AT 6:17 O'CLOCK P.M.

AND I DO HEREBY FURTHER CERTIFY THAT THE EFFECTIVE DATE OF THE AFORESAID CERTIFICATE OF CONVERSION IS THE FIRST DAY OF NOVEMBER, A.D. 2014, AT 12:01 O'CLOCK A.M.

2319755 8100V

141334007

You may verify this certificate online
at corp.delaware.gov/authver.shtml




Jeffrey W. Bullock, Secretary of State
AUTHENTICATION: 1820255

DATE: 10-29-14

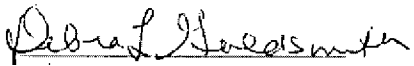
PATENT
REEL: 052547 FRAME: 0230

STATE OF DELAWARE
CERTIFICATE OF CONVERSION
FROM
VERENIUM CORPORATION
TO
BASF ENZYMES LLC
PURSUANT TO SECTION 18-214 OF THE LIMITED LIABILITY ACT

This Certificate of Conversion to Limited Liability Company, dated as of October 24, 2014, is being duly executed and filed by an authorized person, to convert Verenum Corporation (the "Corporation") to a Delaware limited liability company, under the Delaware Limited Liability Company Act (Del. Code Ann. Tit. 6, §§ 18-101 *et. seq.*) (the "Act") and the General Corporation Law of the State of Delaware (Del. Code Ann. Tit. 8, §§101, *et. seq.*) (the "DGCL").

1. The Corporation filed its original certificate of incorporation with the Secretary of State of the State of Delaware on December 21, 1992, under the name Industrial Genome Sciences, Inc.
2. The name of the Corporation immediately prior to the filing of this Certificate of Conversion to Limited Liability Company was Verenum Corporation.
3. The name of the limited liability company formed into which the Corporation shall be converted as set forth in its Certificate of Formation is BASF Enzymes LLC.
4. The conversion of the Corporation to a limited liability company shall be effective on November 1, 2014 at 12:01 a.m.
5. The conversion of the Corporation to a limited liability company has been approved in accordance with the provisions of Section 266 of the DGCL and Section 18-214 of the Act.
6. When the Corporation has been converted to a Delaware limited liability company pursuant to Section 18-214 of the Delaware Limited Liability Company Act and to Section 266 of the General Corporation Law of the State of Delaware, the limited liability company will, for all purposes of the laws of the State of Delaware, be the same entity as the converting Corporation. For all purposes of the laws of the State of Delaware, the rights, privileges, powers and interest in property of the converting Corporation, as well as the debts, liabilities and duties of the Corporation, will not, as a consequence of the conversion, be transferred to the Delaware limited liability company; the converting Corporation will not wind up its affairs or pay its liabilities and distribute its assets; the conversion will not constitute a dissolution of the Corporation; and the conversion will constitute a continuation of the existence of the converting Corporation in the form of a Delaware limited liability company.

IN WITNESS WHEREOF, the undersigned has executed and filed this Certificate of Conversion as of the date first above written.

By: 
Debra L. Goldsmith
Authorized Person