

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
Stylesheet Version v1.2

EPAS ID: PAT6433571

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT

**CONVEYING PARTY DATA**

Name	Execution Date
MALGORZATA SLUPSKA	03/19/2008
GEOFF HAZLEWOOD	05/05/2008
PETER LUGINBUHL	04/21/2008
ELLEN BURKE	04/22/2008
MICHELLE H. CAYOJETTE	04/25/2008
UVINI GUNAVARDENA	04/10/2008
CATHY CHANG	03/21/2008
MAJID GHASSEMIAN	04/21/2008
VERENIUM CORPORATION	11/01/2014
ARON LOUIS SILVERSTONE	12/15/2009
YAN ZHANG	12/16/2009

**RECEIVING PARTY DATA**

<b>Name:</b>	BASF ENZYMES LLC
<b>Street Address:</b>	3550 JOHN HOPKINS COURT
<b>City:</b>	SAN DIEGO
<b>State/Country:</b>	CALIFORNIA
<b>Postal Code:</b>	92121
<b>Name:</b>	SYNGENTA PARTICIPATIONS AG
<b>Street Address:</b>	SCHWARZWALDALLEE 215
<b>City:</b>	BASEL
<b>State/Country:</b>	SWITZERLAND
<b>Postal Code:</b>	CH-4058

**PROPERTY NUMBERS Total: 1**

Property Type	Number
Application Number:	17110222

**CORRESPONDENCE DATA**

Fax Number:

*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.*

**PATENT**

**Phone:** 8584318588  
**Email:** rick.delatorre@basf.com  
**Correspondent Name:** BASF ENZYMES LLC  
**Address Line 1:** 3550 JOHN HOPKINS COURT  
**Address Line 4:** SAN DIEGO, CALIFORNIA 92121

<b>ATTORNEY DOCKET NUMBER:</b>	160962US06
<b>NAME OF SUBMITTER:</b>	RICK DE LA TORRE
<b>SIGNATURE:</b>	/Rick de la Torre/
<b>DATE SIGNED:</b>	12/04/2020

**Total Attachments: 17**

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This Assignment effective the 21st day of December 2007

**ASSIGNMENT**

This Assignment by:

**Malgorzata SLUPSKA**, of 11186 Caminito Rodar, San Diego, California 92126, United States of America;

**Geoff HAZLEWOOD**, of 12484 Carmel Pointe, San Diego, California 92130, United States of America;

**Cathy CHANG**, of 1318 Shadow Hills Drive, San Marcos, California 92069, United States of America;

**Peter LUGINBUHL**, of 12802 Calle de la Siena, San Diego, California, 92130, United States of America;

**Ellen BURKE**, of 3428 Talbot Street, San Diego, California, 92106, United States of America;

**Michelle H. CAYOUETTTE**, of 3812 Park Boulevard #505, San Diego, California 92103, United States of America;

**Uvini, GUNAVARDENA**, of 11072 West Ocean Air Drive, San Diego, California 92130, United States of America;

and

**Majid GHASSEMIAN**, of Steinbeck Court, Carlsbad, California 92008, United States of America

(hereinafter referred to as the "Assignors"), witnesseth:

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

an International Patent Application under the Patent Cooperation Treaty (PCT), which includes a designation of the United States of America, naming the Assignors listed above as inventors, entitled

**AMYLASES AND GLUCOAMYLASES, NUCLEIC ACIDS ENCODING THEM AND METHODS FOR MAKING AND USING THEM**

filed in a competent PCT receiving office as International Application Number **PCT/US2007/088631** on **December 21, 2007**,

identified by attorney docket number **D1530-13WO**;

WHEREAS,

**VERENIUM CORPORATION** (previously named Diversa 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 4955 Directors Place, San Diego, California 92121-1609, United States of America, and corporate headquarters at 55 Cambridge Parkway, Cambridge, Massachusetts 02142, United States of America,

is desirous of acquiring the entire right, title and interest throughout the world in and to

said Inventions;

said International Patent Application;

any national or regional phase patent applications from said patent application (including applications under the European Patent Convention and national patent applications in the United States of America (including any nonprovisional applications converted to provisional applications, divisionals, continuations and continuations-in-part of said applications), or any other patent applications claiming the benefit of priority of said application), and specifically including applications filed in the following countries or regions:

Thailand	0701006640	(D1530-13TH)
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any Letters Patent issued or granted from said 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 said Letters Patent, and any continuations or divisionals of said reexamination or reissue applications); and

all Convention or Treaty rights arising from said inventions, patent applications or Letters Patent, including without limitation, all rights under the Paris Convention for the Protection of Industrial Property, as currently revised and amended (including utility model and design protection);

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

said 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 said Inventions, said patent applications, any said Letters Patent, and said related rights to be vested, held, enjoyed by and for the use of said Assignee, to the full end of the terms for which each of said Letters Patent may be

granted, as fully and entirely as the same would have been held and enjoyed by said Assignors, had this Assignment not been made;

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

said Assignors are the sole and lawful owners of the entire right, title and interest throughout the world in and to said Inventions, said patent applications, any said Letters Patent; and that the same are unencumbered and that said Assignors have good and full right and lawful authority to sell and convey the same in the manner herein set forth;

AND for the same consideration, said Assignors hereby covenant and agree to and with said Assignee, that whenever counsel of said Assignee shall advise that any proceeding in connection with said Inventions, patent applications, Letters Patent and related rights (including interference proceedings) is lawful and desirable,

to effectuate fully this Assignment, said 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 said Letters Patent (including further reissue applications, assignments and preliminary statements) and to fully and properly vest, perfect, record and maintain the rights and title in said Letters Patent, without charge by said Assignors to said Assignee, but at reasonable cost and expense to said Assignee.

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

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

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

This Assignment constitutes the entire agreement with respect to its subject matter and supersedes any prior or contemporaneous oral or written agreements concerning said 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 OF ASSIGNMENT**

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

this 19 day of March, 2008.

Malgorzata Slupska  
**Malgorzata Slupska**

In witness whereof, I hereto set my hand and seal at \_\_\_\_\_,  
(city, state where executed)

this \_\_\_\_\_ day of \_\_\_\_\_, 2008.

\_\_\_\_\_  
**Geoff Hazlewood**

In witness whereof, I hereto set my hand and seal at \_\_\_\_\_,  
(city, state where executed)

this \_\_\_\_\_ day of \_\_\_\_\_, 2008.

\_\_\_\_\_  
**Cathy Chang**

In witness whereof, I hereto set my hand and seal at \_\_\_\_\_,  
(city, state where executed)

this \_\_\_\_\_ day of \_\_\_\_\_, 2008.

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 OF ASSIGNMENT**


In witness whereof, I hereto set my hand and seal at \_\_\_\_\_,  
(city, state where executed)  
this \_\_\_\_\_ day of \_\_\_\_\_, 2008.  
  
\_\_\_\_\_  
**Malgorzata Slupska**

In witness whereof, I hereto set my hand and seal at San Diego, CA,  
(city, state where executed)  
this 5<sup>th</sup> day of May, 2008.  
  
\_\_\_\_\_  
**Geoff Hazlewood**

In witness whereof, I hereto set my hand and seal at \_\_\_\_\_,  
(city, state where executed)  
this \_\_\_\_\_ day of \_\_\_\_\_, 2008.  
  
\_\_\_\_\_  
**Cathy Chang**

In witness whereof, I hereto set my hand and seal at San Diego, CA,  
(city, state where executed)  
this 21<sup>st</sup> day of April, 2008.

  
\_\_\_\_\_  
**Peter Luginbuhl**

In witness whereof, I hereto set my hand and seal at San Diego,  
(city, state where executed)  
this 22 day of April, 2008.  
  
\_\_\_\_\_  
**Ellen Burke**

In witness whereof, I hereto set my hand and seal at \_\_\_\_\_,  
(city, state where executed)  
this \_\_\_\_\_ day of \_\_\_\_\_, 2008.  
\_\_\_\_\_  
**Michelle H. Cayouette**

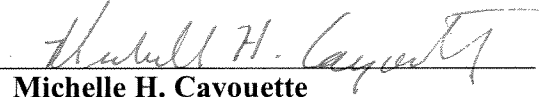
In witness whereof, I hereto set my hand and seal at \_\_\_\_\_,  
(city, state where executed)  
this \_\_\_\_\_ day of \_\_\_\_\_, 2008.  
\_\_\_\_\_  
**Uvini Gunavardena**

In witness whereof, I hereto set my hand and seal at \_\_\_\_\_,  
(city, state where executed)  
this \_\_\_\_\_ day of \_\_\_\_\_, 2008.  
\_\_\_\_\_  
**Cathy Chang**



\_\_\_\_\_  
**Peter Luginbuhl**

In witness whereof, I hereto set my hand and seal at \_\_\_\_\_,  
(city, state where executed)  
this \_\_\_\_\_ day of \_\_\_\_\_, 2008.  
\_\_\_\_\_  
**Ellen Burke**

In witness whereof, I hereto set my hand and seal at San Diego, CA \_\_\_\_\_,  
(city, state where executed)  
this 25<sup>th</sup> day of April, 2008.  
  
**Michelle H. Cayouette**

In witness whereof, I hereto set my hand and seal at \_\_\_\_\_,  
(city, state where executed)  
this \_\_\_\_\_ day of \_\_\_\_\_, 2008.  
\_\_\_\_\_  
**Uvini Gunavardena**

In witness whereof, I hereto set my hand and seal at \_\_\_\_\_,  
(city, state where executed)  
this \_\_\_\_\_ day of \_\_\_\_\_, 2008.  
\_\_\_\_\_  
**Cathy Chang**

\_\_\_\_\_  
**Peter Luginbuhl**

In witness whereof, I hereto set my hand and seal at \_\_\_\_\_,  
(city, state where executed)  
this \_\_\_\_\_ day of \_\_\_\_\_, 2008.  
\_\_\_\_\_  
**Ellen Burke**

In witness whereof, I hereto set my hand and seal at \_\_\_\_\_,  
(city, state where executed)  
this \_\_\_\_\_ day of \_\_\_\_\_, 2008.  
\_\_\_\_\_  
**Michelle H. Cayouette**

In witness whereof, I hereto set my hand and seal at San Diego, CA,  
(city, state where executed)  
this April day of tenth, 2008.  
\_\_\_\_\_  
**Uvini Gunavardena**

In witness whereof, I hereto set my hand and seal at \_\_\_\_\_,  
(city, state where executed)  
this \_\_\_\_\_ day of \_\_\_\_\_, 2008.  
\_\_\_\_\_  
**Cathy Chang**

\_\_\_\_\_  
**Peter Luginbuhl**

In witness whereof, I hereto set my hand and seal at \_\_\_\_\_,  
(city, state where executed)  
this \_\_\_\_\_ day of \_\_\_\_\_, 2008.  
\_\_\_\_\_  
**Ellen Burke**

In witness whereof, I hereto set my hand and seal at \_\_\_\_\_,  
(city, state where executed)  
this \_\_\_\_\_ day of \_\_\_\_\_, 2008.  
\_\_\_\_\_  
**Michelle H. Cayouette**

In witness whereof, I hereto set my hand and seal at \_\_\_\_\_,  
(city, state where executed)  
this \_\_\_\_\_ day of \_\_\_\_\_, 2008.  
\_\_\_\_\_  
**Uvini Gunavardena**

In witness whereof, I hereto set my hand and seal at San Diego, CA,  
(city, state where executed)  
this 21 day of March, 2008.  
\_\_\_\_\_  
**Cathy Chang**

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

this 21 day of April, 2008.

M. Ghassemian  
**Majid Ghassemian**

# 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.

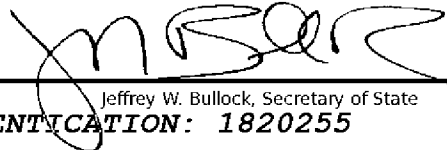
AND I DO HEREBY FURTHER CERTIFY THAT THE EFFECTIVE DATE OF THE AFORESAID CERTIFICATE OF FORMATION IS THE FIRST DAY OF NOVEMBER, A.D. 2014, AT 12:01 O'CLOCK A.M.

2319755 8100V

141334007

You may verify this certificate online  
at [corp.delaware.gov/authver.shtml](http://corp.delaware.gov/authver.shtml)



  
Jeffrey W. Bullock, Secretary of State  
AUTHENTICATION: 1820255

DATE: 10-29-14

PATENT  
REEL: 054552 FRAME: 0773

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.

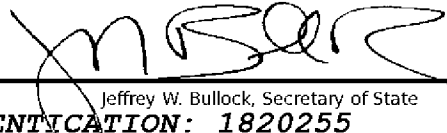
AND I DO HEREBY FURTHER CERTIFY THAT THE EFFECTIVE DATE OF THE AFORESAID CERTIFICATE OF CONVERSION IS THE FIRST DAY OF NOVEMBER, A.D. 2014, AT 12:01 O'CLOCK A.M.

2319755 8100V

141334007

You may verify this certificate online  
at [corp.delaware.gov/authver.shtml](http://corp.delaware.gov/authver.shtml)



  
Jeffrey W. Bullock, Secretary of State  
AUTHENTICATION: 1820255

DATE: 10-29-14

PATENT  
REEL: 054552 FRAME: 0775

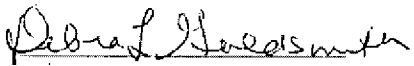
STATE OF DELAWARE  
CERTIFICATE OF CONVERSION  
FROM  
VERENIUM CORPORATION  
TO  
BASF ENZYMES LLC  
PURSUANT TO SECTION 18-214 OF THE LIMITED LIABILITY ACT

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

## ASSIGNMENT – WORLDWIDE

For good and valuable consideration, the receipt of and sufficiency of which are hereby acknowledged, each undersigned inventor has sold and assigned, and by these presents hereby sells and assigns, unto

Syngenta Participations AG  
Schwarzwaldallee 215  
CH-4058 Basel  
SWITZERLAND

its successors and assigns, the entire right, title and interest, so far as concerns the United States and the Territories and Possessions thereof and all foreign countries in and to the invention in "AMYLASES, NUCLEIC ACIDS ENCODING THEM AND METHODS FOR MAKING AND USING THEM", filed in a competent PCT receiving office as International Application Number PCT/US2007/088631 on December 21, 2007 and filed in the U.S. Patent and Trademark Office as US National Stage under 35 USC 371 on June 19, 2009, U.S. Ser. No. 12/520,523.

said application for United States Letters Patent, including all divisional, renewal, substitute, continuation, nonprovisionals, continuation-in-parts, and Convention applications based in whole or in part upon said inventions or upon said applications, and any and all Letters Patent and reissues, reexaminations, and extensions of Letters Patent granted for said inventions or upon said applications and every priority right that is or may be predicated upon or arise from said inventions, said applications, and said Letters Patent; said Assignee being hereby authorized to file patent applications in any or all countries or any or all said inventions in the name of the undersigned or in the name of said Assignee or otherwise as said Assignee may deem advisable, under the International Convention or otherwise; the Commissioner of Patents and Trademarks of the United States of America being hereby authorized to issue or transfer all said Letters Patent to said Assignee in accordance herewith; this assignment being under covenant, not only that full power to make the same is had by the undersigned, but also that such assigned right is not encumbered by any grant, license, or other right theretofore given, and that the undersigned will to all acts reasonably serving to ensure that the said inventions, patent applications and Letters Patent shall be held and enjoyed by said Assignee as fully and entirely as the same could have been held and enjoyed by the undersigned if this assignment had not been made, and particularly to execute and deliver to said Assignee all lawful documents including petitions, specifications, oaths, assignments, invention disclaimers, declarations, and lawful affidavits in form and substance which may be requested by said Assignee, to furnish said Assignee with all facts relating to said inventions or the history thereof and any and all documents, photographs, models, samples or other physical exhibits which may embody said inventions, and to testify in any proceedings relating to said inventions, patent applications, and/or Letters Patent.

The undersigned hereby grant(s) an authorized representative of Assignee the power to insert in this Assignment any further identification that may be necessary or

desirable to comply with the rules of the U.S. Patent and Trademark Office for recordation of this Assignment.

This Assignment is deemed to be effective at least as early as December 21, 2007 (the earliest priority date).

12/15/09  
Date  
12/16/09  
Date

[Signature]  
Aron Louis Silverstone  
[Signature]  
Yan Zhang

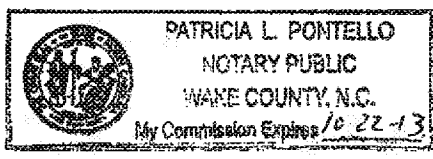
STATE OF NORTH CAROLINA  
COUNTY OF DURHAM

I, Patricia L. Pontello, a Notary Public for said County and State, do hereby certify that Aron Louis Silverstone personally appeared before me this day and acknowledged the due execution of the foregoing instrument.

Witness my hand and official seal this 15<sup>th</sup> day of December, 2009.

(Official Seal) [Signature]  
Notary Public

My Commission expires 10-22-13



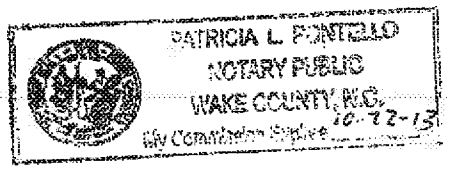
STATE OF NORTH CAROLINA  
COUNTY OF DURHAM

I, Patricia L. Pontello, a Notary Public for said County and State, do hereby certify that Yan Zhang personally appeared before me this day and acknowledged the due execution of the foregoing instrument.

Witness my hand and official seal this 16<sup>th</sup> day of December, 2009.

(Official Seal) [Signature]  
Notary Public

My Commission expires 10-22-13



Attorney Docket No.: 71421