

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT4188065

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
RENEE M. SAVILLE	09/09/2015
JOSHUA SILVERMAN	07/28/2015
JEREMY MINSHULL	09/09/2015
JON EDWARD NESS	07/28/2015
EFFENDI LEONARD	11/10/2016
JANA STUMPE	08/15/2015
MARK WELCH	10/19/2016
RECEIVING PARTY DATA	
Name:	CALYSTA, INC.
Street Address:	1140 O'BRIEN DRIVE, SUITE B
City:	MENLO PARK
State/Country:	CALIFORNIA
Postal Code:	94025
PROPERTY NUMBERS Total: 1	
Property Type	Number
PCT Number:	US2015036515
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:	206-622-4900
Email:	kellyp@seedip.com
Correspondent Name:	BROOKE SARGEANT, PH.D.
Address Line 1:	SEED IP LAW GROUP LLP
Address Line 2:	701 FIFTH AVENUE, SUITE 5400
Address Line 4:	SEATTLE, WASHINGTON 98104
ATTORNEY DOCKET NUMBER:	200206.413USPC
NAME OF SUBMITTER:	BROOKE SARGEANT, PH.D.
SIGNATURE:	/Brooke Sargeant/
DATE SIGNED:	12/15/2016

PATENT

Total Attachments: 10

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ASSIGNMENT

WHEREAS, we,

Name	Residence Address	
Renee M. Saville	1364 Todd Street, Mountain View , California 94040	;
Joshua Silverman	27791 Edgerton Road, Los Altos Hills, California 94022	;
Jeremy Minshull	679 Los Ninos Way, Los Altos, California 94022	;
Jon Edward Ness	710 Bair Island Road, Apt. 405, Redwood City, California 94063	;
Effendi Leonard	8218 E. White Fir Lane, Anaheim, California 92808	;
Jana Stumpe	1187 Manzano Way, Sunnyvale, California 94089	;and
Mark Welch	25 Montalban Drive, Fremont, California 94536	

(hereinafter referred to as ASSIGNORS), having residence addresses of as listed above next to our names, are the joint inventors of an invention entitled "NUCLEIC ACIDS AND VECTORS FOR USE WITH METHANOTROPHIC BACTERIA," as described and claimed in the specification for which an application was filed on June 18, 2015, with the U.S. Receiving Office of the PCT and assigned Application No. PCT/US2015/036515; and which claims the benefit U.S. Provisional Application filed on June 18, 2014, and assigned Application No. 62/014,007;

WHEREAS, Calysta, Inc. (hereinafter referred to as ASSIGNEE), a corporation of the State of Delaware having a place of business at 1140 O'Brien Drive, Suite B, Menlo Park, California 94025, is desirous of acquiring the entire right, title and interest in and to the invention and in and to any letters patent that may be granted therefor in the United States and in any and all foreign countries;

NOW, THEREFORE, in exchange for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, ASSIGNORS hereby sell, assign and transfer unto said ASSIGNEE, the entire right, title and interest in and to said invention, said application and any and all letters patent which may be granted for said invention in the United States of America and its territorial possessions including any extensions or adjustments in term thereof and in any and all foreign countries, and in any and all divisions, reissues and continuations thereof, including the right to file foreign applications directly in the name of ASSIGNEE and to claim priority rights deriving from said United States application to which said foreign applications are entitled by virtue of international convention, treaty or otherwise,

and including the right to sue and collect damages for past and present infringement of said letters patent; said invention, application and all letters patent on said invention to be held and enjoyed by ASSIGNEE and its successors and assigns for their use and benefit and of their successors and assigns as fully and entirely as the same would have been held and enjoyed by ASSIGNORS had this assignment, transfer and sale not been made. ASSIGNORS hereby authorize and request the Commissioner of Patents and Trademarks to issue all letters patent on said invention to ASSIGNEE. ASSIGNORS agree to execute all instruments and documents required for the making and prosecution of applications for United States and foreign letters patent on said invention, for litigation regarding said letters patent, or for the purpose of protecting title to said invention or letters patent therefor.

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

9/9/15
Date
State of California

Renee M. Saville (Assignor)
Renee M. Saville

County of San Mateo

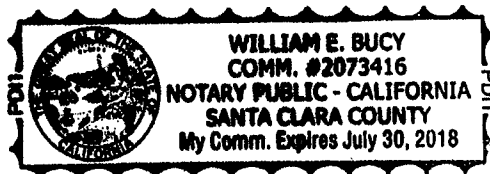
On Sept 9, 2015, before me, William E. Bucy Notary Public
(Here insert name and title of the officer)

personally appeared Renee M. Saville,
who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are
subscribed to the within instrument and acknowledged to me that he/she/they executed the same
in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument
the person(s), or the entity upon behalf of which the person(s) 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
William E. Bucy
Signature of Notary Public

(Notary Seal)



A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

July 28, 2015
Date
State of California

Joshua Silverman (Assignor)

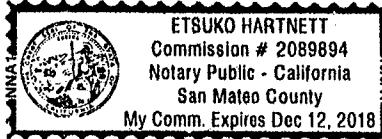
County of Santa Clara

On July 28, 2015, before me, Etsuko Hartnett, Notary Public
(Here insert name and title of the officer)

personally appeared Joshua Silverman,
who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are
subscribed to the within instrument and acknowledged to me that he/she/they executed the same
in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument
the person(s), or the entity upon behalf of which the person(s) 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.



Etsuko Hartnett
Signature of Notary Public

(Notary Seal)

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Date

State of California

County of

San Mateo

Jeremy Minshull

(Assignor)

On

09-09-15

, before me,

William E. Bucy

(Here insert name and title of the officer)

personally appeared

Jeremy Minshull

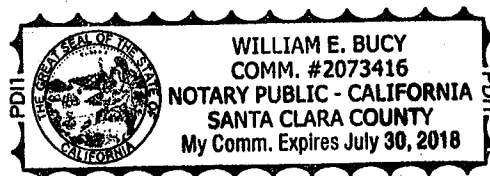
who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) 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.

Signature of Notary Public

(Notary Seal)



A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

7/28/15
Date
State of California

[Signature] (Assignor)
Jon Edward Ness

County of SAN MATEO

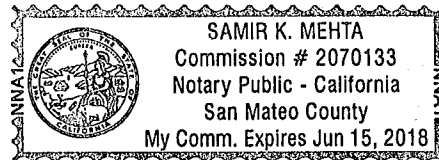
On 28th JULY, 2015, before me, SAMIR K. MEHTA, NOTARY PUBLIC
(Here insert name and title of the officer)

personally appeared JON EDWARD NESS
who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) 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.

Samir K. Mehta
Signature of Notary Public



(Notary Seal)

11/10/2016

Date

Effendi Leonard

(Assignor)

I certify that I know or have satisfactory evidence that Effendi Leonard signed this instrument of his/her own free will, as a voluntary act for the uses and purposes mentioned in the instrument.

Date 11/10/2016

Signed at Santa Monica, CA

Micah J. Sheppard
(Name of Witness)

Micah J. Sheppard
(Signature of Witness)

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

08/15/2015
Date
State of California

Jana Stumpe (Assignor)

County of santa clara

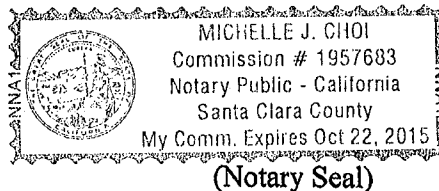
On 15th day of August 2015, before me, MICHELLE J. CHOI NOTARY PUBLIC,
(Here insert name and title of the officer)

personally appeared Jana Stumpe,
who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are
subscribed to the within instrument and acknowledged to me that he/she/they executed the same
in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument
the person(s), or the entity upon behalf of which the person(s) 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.

Michelle J. Choi
Signature of Notary Public



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10/19/2016
Date

Mark Welch (Assignor)
Mark Welch

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

State of California

County of Alameda

On Oct. 19, 2016, before me, William E. Bucy Notary Public
(Here insert name and title of the officer)

personally appeared Mark Welch
who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

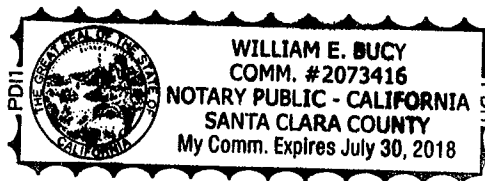
I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

William E. Bucy
Signature of Notary Public

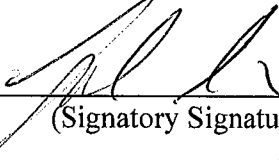
(Notary Seal)

4132460_1.DOC



CALYSTA, INC.

November 7, 2016
Date

 (Assignee)
(Signatory Signature)

Josh Silverman, CTO
(Assignee Signatory Name, Title)

I certify that I know or have satisfactory evidence that Josh Silverman
signed this instrument of his/her own free will, as a voluntary act for the uses and purposes
mentioned in the instrument.

Date November 7, 2016

Signed at 1140 O'Brien Drive, Menlo Park

Allan LeBlanc
(Name of Witness)

 CA
(Signature of Witness)

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