

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT						
NATURE OF CONVEYANCE:	ASSIGNMENT						
CONVEYING PARTY DATA							
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>JOSHUA SILVERMAN</td> <td>10/09/2013</td> </tr> <tr> <td>THOMAS JOSEPH PURCELL</td> <td>10/09/2013</td> </tr> </tbody> </table>		Name	Execution Date	JOSHUA SILVERMAN	10/09/2013	THOMAS JOSEPH PURCELL	10/09/2013
Name	Execution Date						
JOSHUA SILVERMAN	10/09/2013						
THOMAS JOSEPH PURCELL	10/09/2013						
RECEIVING PARTY DATA							
Name:	CALYSTA ENERGY, INC.						
Street Address:	1140 O'BRIEN DRIVE						
Internal Address:	SUITE A						
City:	MENLO PARK						
State/Country:	CALIFORNIA						
Postal Code:	94025						
PROPERTY NUMBERS Total: 1							
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>PCT Number:</td> <td>US1360460</td> </tr> </tbody> </table>		Property Type	Number	PCT Number:	US1360460		
Property Type	Number						
PCT Number:	US1360460						
CORRESPONDENCE DATA							
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Correspondent Name:	JEFFREY C. PEPE, PH.D.						
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ATTORNEY DOCKET NUMBER:	200206.403WO						
NAME OF SUBMITTER:	JEFFREY C. PEPE, PH.D.						
Signature:	/ Jeffrey C. Pepe /						

Date:

10/10/2013

Total Attachments: 3

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ASSIGNMENT

WHEREAS, we,

Name	Residence Address	
Joshua Silverman	829 Dartshire Way, Sunnyvale, California 94087	; and
Thomas Joseph Purcell	2539 Alvin Street, Mountain View, California 94043	

(hereinafter referred to as ASSIGNORS), having residence addresses as listed above next to our names, are joint inventors of an invention entitled "**PROPYLENE SYNTHESIS USING ENGINEERED ENZYMES**," as described and claimed in the specification for which a PCT international application was filed in the U.S. Receiving Office of the PCT on September 18, 2013, and which was assigned PCT International Application No. PCT/US2013/060460; and

WHEREAS, said PCT international application claims priority to U.S. Provisional Patent Application No. 61/702,534, filed September 18, 2012; and


WHEREAS, **Calysta Energy, Inc.** (hereinafter referred to as ASSIGNEE), a Delaware corporation having a place of business at 1140 O'Brien Drive Suite A, 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.

This Assignment is effective as of September 18, 2012.

10/9/2013
Date


Joshua Silverman

State of California

County of _____

On _____, before me, _____
(Here insert name and title of the officer)
personally appeared _____

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)

10/9/13
Date


Thomas Joseph Purcell

State of California

County of _____

On _____, before me, _____
(Here insert name and title of the officer)

personally appeared _____

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)

200206403WO 2778639_1