

## TRADEMARK ASSIGNMENT

Electronic Version v1.1  
 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT		
NATURE OF CONVEYANCE:	Security Agreement		
CONVEYING PARTY DATA			
Name	Formerly	Execution Date	Entity Type
QTEROS, LLC		02/21/2013	LIMITED LIABILITY COMPANY: DELAWARE
RECEIVING PARTY DATA			
Name:	OXFORD FINANCE LLC		
Street Address:	133 North Fairfax Street		
City:	Alexandria		
State/Country:	VIRGINIA		
Postal Code:	22314		
Entity Type:	LIMITED LIABILITY COMPANY: DELAWARE		
PROPERTY NUMBERS Total: 2			
Property Type	Number	Word Mark	
Registration Number:	3796776	QTEROS	
Registration Number:	3781610	Q MICROBE	
CORRESPONDENCE DATA			
Fax Number:	8004947512		
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i>			
Phone:	202-370-4761		
Email:	tfahey@nationalcorp.com		
Correspondent Name:	Thomas Fahey		
Address Line 1:	1100 G St NW, Suite 420		
Address Line 2:	National Corporate Research, Ltd.		
Address Line 4:	Washington, DISTRICT OF COLUMBIA 20005		
ATTORNEY DOCKET NUMBER:	F143705		
NAME OF SUBMITTER:	Janet Wamsley		

OP \$65.00 3796776

Signature:	/Janet Wamsley/
Date:	02/27/2013
<p>Total Attachments: 17</p> <p>source=DOC020.TM#page2.tif source=DOC020.TM#page3.tif source=DOC020.TM#page4.tif source=DOC020.TM#page5.tif source=DOC020.TM#page6.tif source=DOC020.TM#page7.tif source=DOC020.TM#page8.tif source=DOC020.TM#page9.tif source=DOC020.TM#page10.tif source=DOC020.TM#page11.tif source=DOC020.TM#page12.tif source=DOC020.TM#page13.tif source=DOC020.TM#page14.tif source=DOC020.TM#page15.tif source=DOC020.TM#page16.tif source=DOC020.TM#page17.tif source=DOC020.TM#page18.tif</p>	

**AMENDED AND RESTATED  
INTELLECTUAL PROPERTY SECURITY AGREEMENT**

This Amended and Restated Intellectual Property Security Agreement (this “**IPSA**”) is entered into as of February 21, 2013 by and between (a) **QTEROS, LLC**, (f/k/a Sunverta, LLC), a Delaware limited liability company having a principal office 99 Pulpit Hill Rd., Amherst, Massachusetts 01002 (the “**Grantor**”), in favor of (b) **OXFORD FINANCE LLC** (the “**Secured Party**”), successor by assignment from QWD Corporation (f/k/a Qteros, Inc.) a Delaware limited liability company with a principal office at 133 North Fairfax Street, Alexandria, Virginia 22314, as collateral agent for itself and Silicon Valley Bank.

RECITALS

A. The Grantor is indebted to the Secured Party pursuant to a certain Promissory Note dated as of August 23, 2012 in the original principal amount of \$150,000.00 (as amended and in effect from time to time, the “**Note**”); and

B. It is a condition to the Secured Party extending the financial accommodations evidenced by the Note that the Grantor execute and deliver this IPSA to secure the payment and performance of all of Debtor’s obligations and liabilities to the Secured Party under the Note, in accordance with the terms of this IPSA.

NOW, THEREFORE, for good and valuable consideration, receipt of which is hereby acknowledged, and intending to be legally bound, as collateral security for the prompt and complete payment as and when due of all Obligations (as defined below), the Grantor hereby represents, warrants, covenants and agrees as follows:

AGREEMENT

To secure full payment and performance of all obligations and liabilities of the Grantor to the Secured Party under the Note (except as set forth below), that certain Security Agreement of even date herewith between the Grantor and the Secured Party (the “**Security Agreement**”), and this ISPA (collectively, the “**Obligations**”), the Grantor grants and pledges to the Secured Party a security interest in all of the Grantor’s right, title and interest in, to and under its intellectual property (all of which shall collectively be called the “**Intellectual Property Collateral**”), including, without limitation, the following:

1. Any and all copyright rights, copyright applications, copyright registrations and like protections in each work or authorship and derivative work thereof, whether published or unpublished and whether or not the same also constitutes a trade secret, now or hereafter existing, created, acquired or held, including without limitation those set forth on Exhibit A attached hereto (collectively, the “**Copyrights**”);

2. Any and all trade secrets, and any and all intellectual property rights in computer software and computer software products now or hereafter existing, created, acquired or held;

3. Any and all design rights that may be available to the Grantor now or hereafter existing, created, acquired or held;
4. All patents, patent applications and like protections including, without limitation, improvements, divisions, continuations, renewals, reissues, extensions and continuations-in-part of the same, including, without limitation, the patents and patent applications set forth on **Exhibit B** attached hereto (collectively, the “**Patents**”);
5. Any trademark and servicemark rights, whether registered or not, applications to register and registrations of the same and like protections, and the entire goodwill of the business of the Grantor connected with and symbolized by such trademarks, including, without limitation, those set forth on **Exhibit C** attached hereto (collectively, the “**Trademarks**”);
6. All mask works or similar rights available for the protection of semiconductor chips, now owned or hereafter acquired, including, without limitation, those set forth on **Exhibit D** attached hereto (collectively, the “**Mask Works**”);
7. Any and all claims for damages by way of past, present and future infringements of any of the rights included above, with the right, but not the obligation, to sue for and collect such damages for said use or infringement of the intellectual property rights identified above;
8. All licenses or other rights to use any of the Copyrights, Patents, Trademarks, or Mask Works and all license fees and royalties arising from such use to the extent permitted by such license or rights;
9. All amendments, extensions, renewals and extensions of any of the Copyrights, Trademarks, Patents, or Mask Works; and
10. All proceeds and products of the foregoing, including, without limitation, all payments under insurance or any indemnity or warranty payable in respect of any of the foregoing.
11. The Grantor authorizes and requests that the Register of Copyrights, the Commissioner of Patents and Trademarks record this IPSA, and any amendments thereto, or copies thereof. This security interest is granted in conjunction with the security interests granted to the Secured Party under that certain Security Agreement. The rights and remedies of the Secured Party with respect to the security interests granted hereby are in addition to those set forth in the Note and/or the Security Agreement, and those which are now or hereafter available to the Secured Party as a matter of law or equity. Each right, power and remedy of the Secured Party provided for herein or in the Note or Security Agreement, or now or hereafter existing at law or in equity shall be cumulative and concurrent and shall be in addition to every right, power or remedy provided for herein and the exercise by the Secured Party of any one or more of the rights, powers or remedies provided for in this IPSA, or in the Note or Security Agreement, or now or hereafter existing at law or in equity, shall not preclude the simultaneous or later exercise by any person, including the Secured Party, of any or all other rights, powers or remedies.

12. THIS IPSA AND THE RIGHTS AND OBLIGATIONS OF THE PARTIES UNDER THIS IPSA SHALL BE GOVERNED BY, AND CONSTRUED AND INTERPRETED IN ACCORDANCE WITH, THE LAW OF THE COMMONWEALTH OF MASSACHUSETTS.

13. NOTWITHSTANDING ANYTHING TO THE CONTRARY CONTAINED HEREIN, IT IS EXPRESSLY ACKNOWLEDGED AND AGREED THAT THE OBLIGATIONS SECURED BY THIS IPSA DO NOT INCLUDE THE PARTICIPATION CONSIDERATION UNDER, AND AS DEFINED IN, THE NOTE.

14. This IPSA shall bind and inure to the benefit of the respective successors and permitted assigns of each of the parties; provided, however, that neither this IPSA nor any rights hereunder may be assigned by the Grantor without the Secured Party's prior written consent, which consent may be granted or withheld in the Secured Party's sole discretion. The Secured Party may assign this IPSA from time to time in its sole and exclusive discretion without the prior consent of, but with prior notice to, the Grantor.

15. The Grantor hereby irrevocably and unconditionally:

(a) **WAIVES**, TO THE EXTENT PERMITTED BY APPLICABLE LAW, ITS RIGHT TO A JURY TRIAL OF ANY CLAIM OR CAUSE OF ACTION ARISING OUT OF OR BASED UPON THIS IPSA, THE OTHER LOAN DOCUMENTS OR ANY CONTEMPLATED TRANSACTION, INCLUDING CONTRACT, TORT, BREACH OF DUTY AND ALL OTHER CLAIMS. THIS WAIVER IS A MATERIAL INDUCEMENT FOR THE PARTIES TO ENTER INTO THIS IPSA. EACH PARTY HAS REVIEWED THIS WAIVER WITH ITS COUNSEL; and

(b) **WAIVES**, to the maximum extent not prohibited by law, any right it may have to claim or recover in any legal action or proceeding referred to in this IPSA any special, exemplary, punitive or consequential damages.

16. This IPSA amends and restates that certain Intellectual Property Security Agreement dated as of August 23, 2012 by and between the Grantor and the Secured Party (the "**Original IPSA**"). This IPSA is not in any way intended to constitute a novation of the obligations and liabilities existing under the Original IPSA or evidence payment of all or any portion of such obligations and liabilities. For the avoidance of doubt, nothing contained herein is intended to be, and shall not be construed as, a waiver, modification, or amendment of any of the other documents, instruments, and agreements between the Grantor and the Secured Party, all of which remain in full force and effect in accordance with the express terms thereof.

IN WITNESS WHEREOF, the parties have caused this IPSA to be duly executed by its officers thereunto duly authorized as of the first date written above.

GRANTOR:

Address for Grantor:

99 Pulpit Hill Road  
Amherst, Massachusetts 01002

QTEROS, LLC

By: 

Name: Stephen Williams  
Title: CEO

SECURED PARTY:

Address of the Secured Party:

133 North Fairfax Street  
Alexandria, Virginia 22314

OXFORD FINANCE LLC, as collateral agent

By: \_\_\_\_\_

Name:

Title:

[Signature Page to Intellectual Property Security Agreement]

IN WITNESS WHEREOF, the parties have caused this IPSA to be duly executed by its officers thereunto duly authorized as of the first date written above.

GRANTOR:

Address for Grantor:

**QTEROS, LLC**

99 Pulpit Hill Road  
Amherst, Massachusetts 01002

By: \_\_\_\_\_  
Name:  
Title:

SECURED PARTY:

Address of the Secured Party:

**OXFORD FINANCE LLC**, as collateral agent

133 North Fairfax Street  
Alexandria, Virginia 22314

By:  \_\_\_\_\_  
Name: Mark Davis  
Title: Vice President - Finance, Secretary & Treasurer

[Signature Page to Intellectual Property Security Agreement]

TRADEMARK  
REEL: 004971 FRAME: 0703

EXHIBIT A

Copyrights

None



EXHIBIT B

Patents

OTEROS, INC. - Patents

Patent No.	Date	Class	Pub. No.	Pub. Date	Country	Owner	Description
61/042,697	04-Apr-2008				United States of America	University of Massachusetts	METHOD FOR IMPROVING THE PRODUCTION OF ETHANOL IN MICROORGANISMS
12/419,255	06-Apr-2009				United States of America	University of Massachusetts	METHODS AND COMPOSITIONS FOR IMPROVING THE PRODUCTION OF FUELS IN MICROORGANISMS
61/860,520	14-Jun-2008				United States of America	University of Massachusetts	METHODS FOR IMPROVING THE BIOMASS CONVERSION PERFORMANCE OF ETHYLOFERMENTANTS THROUGH GENETIC CONTROL OF REPRODUCTION FACTORS
12/409,469	11-Jun-2009				United States of America	University of Massachusetts	METHODS AND COMPOSITIONS FOR IMPROVING THE PRODUCTION OF ETHANOL IN MICROORGANISMS
61/084,233	28-Jul-2008				United States of America	Oteros / University of Massachusetts	METHODS AND COMPOSITIONS FOR IMPROVING THE PRODUCTION OF ETHANOL IN MICROORGANISMS
61/225,184	13-Jul-2009				United States of America	Oteros / University of Massachusetts	METHODS AND COMPOSITIONS FOR IMPROVING THE PRODUCTION OF ETHANOL IN MICROORGANISMS
61/228,922	27-Jul-2009				United States of America	Oteros / University of Massachusetts	METHODS AND COMPOSITIONS FOR IMPROVING THE PRODUCTION OF ETHANOL IN MICROORGANISMS
12/510,994	28-Jul-2009	7,943,363	17-May-2011		United States of America	Oteros / University of Massachusetts	METHODS AND COMPOSITIONS FOR IMPROVING THE PRODUCTION OF ETHANOL IN MICROORGANISMS
13/086,669	14-Apr-2011				United States of America	Oteros / University of Massachusetts	METHODS AND COMPOSITIONS FOR IMPROVING THE PRODUCTION OF PRODUCTS IN MICROORGANISMS
61/158,581	09-Mar-2009				United States of America	Oteros, Inc.	A NOVEL PROCESS FOR THE PRODUCTION OF ETHANOL AND OTHER PRODUCTS FROM CLOSTRIDIUM PHYTOFERMENTANS
12/720,574	09-Mar-2010				United States of America	Oteros, Inc.	PRODUCTION OF FERMENTIVE END PRODUCTS FROM CLOSTRIDIUM SP.
61/158,600	09-Mar-2009				United States of America	Oteros, Inc.	FERMENTATION OF CLOSTRIDIUM PHYTOFERMENTANS TO PRODUCE ETHANOL IN THE PRESENCE OF FATTY ACID-CONTAINING COMPOUNDS AND UNDER REDUCED PH CONDITIONS
61/032,048	27-Feb-2008				United States of America	Oteros, Inc.	A METHOD FOR THE CONVERSION OF PLANT MATERIALS INTO FUELS AND CHEMICALS BY SEQUENTIAL ACTION OF TWO MICROORGANISMS
12/919,750	12-Oct-2010				United States of America	Oteros, Inc.	METHOD FOR THE CONVERSION OF PLANT MATERIALS INTO FUELS AND CHEMICALS BY SEQUENTIAL ACTION OF TWO MICROORGANISMS
60/782,813	27-Mar-2006				United States of America	University of Massachusetts	SYSTEMS AND METHODS FOR PRODUCING FUELS
11/698,727	06-Jun-2007	7,582,813	23-Mar-2009		United States of America	University of Massachusetts	SYSTEMS AND METHODS FOR PRODUCING BIOFUELS AND RELATED MATERIALS
12/271,718	14-Nov-2008				United States of America	University of Massachusetts	SYSTEMS AND METHODS FOR PRODUCING BIOFUELS AND RELATED MATERIALS
12/701,687	07-Feb-2010				United States of America	University of Massachusetts	SYSTEMS AND METHODS FOR PRODUCING BIOFUELS AND RELATED MATERIALS

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QTEROS, INC. - Patents

Patent Number	Issue Date	Patent Number	Issue Date	Country Name	Inventor	Description
12/770,895	05-Feb-2010			United States of America	University of Massachusetts	SYSTEMS AND METHODS FOR PRODUCING BIOFUELS AND RELATED MATERIALS
12/781,885	05-Feb-2010			United States of America	University of Massachusetts	SYSTEMS AND METHODS FOR PRODUCING BIOFUELS AND RELATED MATERIALS
12/707,409	05-Feb-2010			United States of America	University of Massachusetts	SYSTEMS AND METHODS FOR PRODUCING BIOFUELS AND RELATED MATERIALS
12/701,540	05-Feb-2010			United States of America	University of Massachusetts	SYSTEMS AND METHODS FOR PRODUCING BIOFUELS AND RELATED MATERIALS
12/704,853	06-Feb-2010			United States of America	University of Massachusetts	SYSTEMS AND METHODS FOR PRODUCING BIOFUELS AND RELATED MATERIALS
61/171,077	20-Apr-2009			United States of America	Qteros, Inc.	ETHANOL PRODUCTION FROM BIOMASS THROUGH SIMULTANEOUS HYDROLYSIS AND FERMENTATION BY CLOSTRIDIUM PHYTOFERMENTANS
61/171,831	22-Apr-2009			United States of America	Qteros, Inc.	COMPOSITIONS AND METHODS FOR FERMENTATION OF BIOMASS
12/763,966	20-Apr-2010			United States of America	Qteros, Inc.	COMPOSITIONS AND METHODS FOR FERMENTATION OF BIOMASS
61/171,835	22-Apr-2009			United States of America	Qteros, Inc.	COMPOSITIONS AND METHODS FOR FERMENTATION OF BIOMASS
61/221,523	29-Jun-2009			United States of America	Qteros, Inc.	COMPOSITIONS AND METHODS FOR METHANE PRODUCTION
12/630,784	03-Dec-2009			United States of America	Qteros, Inc.	COMPOSITIONS AND METHODS FOR IMPROVED SACCHARIFICATION OF BIOMASS
61/221,519	29-Jun-2009			United States of America	Qteros, Inc.	COMPOSITIONS AND METHODS FOR IMPROVED SACCHARIFICATION OF BIOMASS
13/338,948	28-Dec-2011			United States of America	Qteros, Inc.	ALKALI TREATMENT OF BIOMASS
61/237,190	26-Aug-2009			United States of America	Qteros, Inc.	PRETREATMENT OF BIOMASS
12/440,922	28-Jul-2009			United States of America	University of Massachusetts	MODIFIED ORGANISMS FOR IMPROVED SACCHARIFICATION OF BIOMASS
61/285,486	10-Dec-2009			United States of America	Qteros, Inc.	METHODS AND COMPOSITIONS FOR IMPROVING THE PRODUCTION OF PRODUCTS IN MICROORGANISMS
61/286,729	15-Dec-2009			United States of America	Qteros, Inc.	METHODS AND COMPOSITIONS FOR BIOMASS TREATMENT
12/969,582	15-Dec-2010			United States of America	Qteros, Inc.	METHODS AND COMPOSITIONS FOR PRODUCING CHEMICAL PRODUCTS FROM C. PHYTOFERMENTANS
61/295,405	15-Jan-2010			United States of America	Qteros, Inc.	METHODS AND COMPOSITIONS FOR PRODUCING CHEMICAL PRODUCTS FROM C. PHYTOFERMENTANS
61/327,051	22-Apr-2010			United States of America	Qteros, Inc.	BIOFUEL PRODUCTION USING BIOFILM IN FERMENTATION
61/307,681	24-Feb-2010			United States of America	Qteros, Inc.	NEW BACTERIUM FOR PRODUCTION OF CHEMICALS AND RECOMBINANTS THEREOF
				United States of America	Qteros, Inc.	METHODS AND COMPOSITIONS FOR FERMENTING BIOMASS WITH A RECOMBINANT ORGANISM

QTEROS, INC. - Patents

Patent No.	Issue Date	Country	Inventor	Assignee	Abstract
21 61/729,097	22-Mar-2010	United States of America		Qteros, Inc.	MICROORGANISMS WITH INACTIVATED LACTATE DEHYDROGENASE GENE (LDH) FOR CHEMICAL PRODUCTION
22 61/330,138	30-Apr-2010	United States of America		Qteros, Inc.	REDIRECTED BIOENERGETICS IN RECOMBINANT CELLULOLYTIC CLOSTRIDIUM MICROORGANISMS
23 61/098,264	29-Apr-2011	United States of America		Qteros, Inc.	REDIRECTED BIOENERGETICS IN RECOMBINANT CELLULOLYTIC CLOSTRIDIUM MICROORGANISMS
24 61/347,718	24-May-2010	United States of America		Qteros, Inc.	METHODS FOR PRODUCING CHEMICAL PRODUCTS FROM FERMENTATION BYPRODUCTS
25 61/414,297	16-Nov-2010	United States of America		Qteros, Inc.	COMPOSITIONS AND METHODS FOR IMPROVED SACCHARIFICATION OF GENETICALLY MODIFIED PLANT-DERIVED BIOMASS
26 61/415,787	19-Nov-2010	United States of America		Qteros, Inc.	NEW BIOCATALYSTS AND PRIMERS FOR PRODUCTION OF CHEMICALS
27 61/444,116	17-Feb-2011	United States of America		Qteros, Inc.	MODULATION OF FERMENTATION PRODUCTS BY THIAMINE
28 61/524,668	17-Aug-2011	United States of America		Qteros, Inc.	MODULATION OF FERMENTATION PRODUCTS THROUGH VITAMIN SUPPLEMENTATION
29 61/289,568	04-Nov-2011	United States of America		Qteros, Inc.	MODULATION OF FERMENTATION PRODUCTS THROUGH VITAMIN SUPPLEMENTATION
30 61/436,575	26-Jan-2011	United States of America		Qteros, Inc.	BIOCATALYSTS SYNTHESIZING DEREGLATED CELLULASES
31 61/270,166	10-Oct-2011	United States of America		Qteros, Inc.	BIOCATALYSTS SYNTHESIZING DEREGLATED CELLULASES
32 61/442,120	11-Feb-2011	United States of America		Qteros, Inc.	IMPROVED COMPOSITIONS AND METHODS FOR TRANSFORMATION OF MICROORGANISMS
33 61/473,619	08-Apr-2011	United States of America		Qteros / University of Massachusetts	COMPOSITIONS AND METHODS FOR PRODUCTION OF FERMENTATION END-PRODUCTS FROM BIOMASS
34 61/424,013	16-Dec-2010	United States of America		Qteros, Inc.	BIOFUEL PRODUCTION USING BIOFILM IN FERMENTATION
35 61/500,070	22-Jun-2011	United States of America		Qteros, Inc.	BIOFUEL PRODUCTION USING BIOFILM IN FERMENTATION
36 61/521,325	08-Aug-2011	United States of America		Qteros, Inc.	COMPOSITIONS AND METHODS FOR OPTIMIZED CO-CULTURE FERMENTATION
37 61/521,332	08-Aug-2011	United States of America		Qteros, Inc.	COMPOSITIONS AND METHODS FOR PRODUCTION OF CO-CULTURE INOCULUM
38 61/530,383	01-Sep-2011	United States of America		Qteros, Inc.	CULTURE DELIVERY SYSTEM FOR BIOFUEL PRODUCTION
39 61/558,855	11-Nov-2011	United States of America		Qteros, Inc.	SOLVENT GAS STRIPPING
40 61/558,721	11-Nov-2011	United States of America		Qteros, Inc.	DOWNSTREAM PROCESSING OF FERMENTATION RESIDUALS
40 61/558,748	11-Nov-2011	United States of America		Qteros, Inc.	DETOXIFICATION OR CONCENTRATION OF HYDROLYZED BIOMASS

QTEROS, INC. - Patents

Patent Number	Priority Date	Country of Origin	Applicant	Inventor	Abstract
41 1001956.0	05-Feb-2010	United Kingdom	Qteros, Inc.		
42 1004631.6	19-Mar-2010	United Kingdom	Qteros, Inc.		COMPOSITIONS AND METHODS FOR IMPROVED SACCHARIFICATION OF BIOMASS
43 a201011479	27-Feb-2009	Ukraine	Qteros, Inc.		MICROORGANISMS WITH INACTIVATED LACTATE DEHYDROGENASE GENE (LDH) FOR CHEMICAL PRODUCTION
<del>200808666</del>	<del>29-Jun-2007</del>	<del>Ukraine</del>	<del>University of Massachusetts</del>		<del>METHOD FOR THE CONVERSION OF PLANT MATERIALS INTO FUELS AND CHEMICALS BY SEQUENTIAL ACTION OF TWO MICROORGANISMS</del>
44 2011/05794	09-Mar-2010	South Africa	Qteros, Inc.		SYSTEMS AND METHODS FOR PRODUCING BIOFUELS AND RELATED MATERIALS
45 2010/06273	27-Feb-2009	South Africa	Qteros, Inc.		PRODUCTION OF FERMENTIVE END PRODUCTS FROM CLOSTRIDIUM SP.
<del>2009/07231</del>	<del>20-Jan-2007</del>	<del>South Africa</del>	<del>University of Massachusetts</del>		<del>METHOD FOR THE CONVERSION OF PLANT MATERIALS INTO FUELS AND CHEMICALS BY SEQUENTIAL ACTION OF TWO MICROORGANISMS</del>
46 2011/08420	20-Apr-2010	South Africa	Qteros, Inc.		SYSTEMS AND METHODS FOR PRODUCING BIOFUELS AND RELATED MATERIALS
<del>1-2899-001772</del>	<del>28-Nov-2007</del>	<del>Philippines</del>	<del>University of Massachusetts</del>		<del>COMPOSITIONS AND METHODS FOR FERMENTATION OF BIOMASS</del>
47 2011-502251	20-Apr-2010	Philippines	Qteros, Inc.		SYSTEMS AND METHODS FOR PRODUCING BIOFUELS AND RELATED MATERIALS
US2009/39585	06-Apr-2009	Patent Cooperation Treaty	University of Massachusetts		COMPOSITIONS AND METHODS FOR FERMENTATION OF BIOMASS
US2009/47688	11-Jun-2009	Patent Cooperation Treaty	University of Massachusetts		METHODS AND COMPOSITIONS FOR IMPROVING THE PRODUCTION OF FUELS IN MICROORGANISMS
48 US2009/51993	28-Jul-2009	Patent Cooperation Treaty	Qteros / University of Massachusetts		METHODS FOR IMPROVING THE BIOMASS CONVERSION PERFORMANCE OF C. BUTYTERMANS THROUGH GENETIC CONTROL OF POPULATION FACTORS
48 US2010/26730	09-Mar-2010	Patent Cooperation Treaty	Qteros, Inc.		METHODS AND COMPOSITIONS FOR IMPROVING THE PRODUCTION OF ETHANOL IN MICROORGANISMS
49 US2009/35597	27-Feb-2009	Patent Cooperation Treaty	Qteros, Inc.		PRODUCTION OF FERMENTIVE END PRODUCTS FROM CLOSTRIDIUM SP.
<del>US2009/02934</del>	<del>26-Jun-2007</del>	<del>Patent Cooperation Treaty</del>	<del>University of Massachusetts</del>		<del>METHOD FOR THE CONVERSION OF PLANT MATERIALS INTO FUELS AND CHEMICALS BY SEQUENTIAL ACTION OF TWO MICROORGANISMS</del>
50 US2010/31796	20-Apr-2010	Patent Cooperation Treaty	Qteros, Inc.		SYSTEMS AND METHODS FOR PRODUCING BIOFUELS AND RELATED MATERIALS
51 US2010/32135	22-Apr-2010	Patent Cooperation Treaty	Qteros, Inc.		COMPOSITIONS AND METHODS FOR FERMENTATION OF BIOMASS
					COMPOSITIONS AND METHODS FOR METHANE PRODUCTION

QTEROS, INC. - Patents

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Patent Number	Issue Date	Patent Number	Country	Patent Name	Owner	Description
US2010/40484	29-Jun-2010			Patent Cooperation Treaty	Qteros, Inc.	
US2010/40502	29-Jun-2010			Patent Cooperation Treaty	Qteros, Inc.	COMPOSITIONS AND METHODS FOR IMPROVED SACCHARIFICATION OF BIOMASS
US2010/46866	26-Aug-2010			Patent Cooperation Treaty	Qteros, Inc.	PRETREATMENT OF BIOMASS
US2009/61692	28-Jul-2009			Patent Cooperation Treaty	Qteros, Inc.	MODIFIED ORGANISMS FOR IMPROVED SACCHARIFICATION OF BIOMASS
US2010/59962	10-Dec-2010			Patent Cooperation Treaty	University of Massachusetts	METHODS AND COMPOSITIONS FOR IMPROVING THE PRODUCTION OF PRODUCTS IN MICROORGANISMS
US2010/09188	15-Dec-2010			Patent Cooperation Treaty	Qteros, Inc.	METHODS AND COMPOSITIONS FOR BIOMASS TREATMENT
US2011/21493	14-Jan-2011			Patent Cooperation Treaty	Qteros, Inc.	METHODS AND COMPOSITIONS FOR PRODUCING CHEMICAL PRODUCTS FROM C. PHYTOFERMENTANS
US2011/33688	22-Apr-2011			Patent Cooperation Treaty	Qteros, Inc.	BIOFUEL PRODUCTION USING BIOFILM IN FERMENTATION
US2011/33832	25-Apr-2011			Patent Cooperation Treaty	Qteros, Inc.	NEW BACTERIUM FOR PRODUCTION OF CHEMICALS AND RECOMBINANTS THEREOF
US2011/26143	24-Feb-2011			Patent Cooperation Treaty	Qteros, Inc.	NEW BACTERIUM FOR PRODUCTION OF CHEMICALS AND RECOMBINANTS THEREOF
US2011/29102	18-Mar-2011			Patent Cooperation Treaty	Qteros, Inc.	METHODS AND COMPOSITIONS FOR ENHANCED ENZYME ACTIVITY IN FERMENTING MICROORGANISMS
US2011/34687	29-Apr-2011			Patent Cooperation Treaty	Qteros, Inc.	MICROORGANISMS WITH INACTIVATED LACTATE DEHYDROGENASE GENE (LDH) FOR CHEMICAL PRODUCTION
US2011/37764	24-May-2011			Patent Cooperation Treaty	Qteros, Inc.	REDIRECTED BIOENERGETICS IN RECOMBINANT CELLULOLYTIC CLOSTRIDIUM MICROORGANISMS
US2011/061079	15-Nov-2011			Patent Cooperation Treaty	Qteros, Inc.	METHODS FOR PRODUCING CHEMICAL PRODUCTS FROM FERMENTATION BYPRODUCTS
US2011/061521	18-Nov-2011			Patent Cooperation Treaty	Qteros, Inc.	COMPOSITIONS AND METHODS FOR IMPROVED SACCHARIFICATION OF GENETICALLY MODIFIED PLANT-DERIVED BIOMASS
US2011/063631	16-Dec-2011			Patent Cooperation Treaty	Qteros, Inc.	NEW BIOCATALYSTS AND PRIMERS FOR PRODUCTION OF CHEMICALS
590750	28-Jul-2009		New Zealand		Qteros, Inc.	BIOFUEL PRODUCTION USING BIOFILM IN FERMENTATION
595111	09-May-2010		New Zealand		Qteros / University of Massachusetts	METHODS AND COMPOSITIONS FOR IMPROVING THE PRODUCTION OF ETHANOL IN MICROORGANISMS
587605	27-Feb-2009		New Zealand		Qteros, Inc.	PRODUCTION OF FERMENTIVE END PRODUCTS FROM CLOSTRIDIUM SP.
596009	20-Apr-2010		New Zealand		Qteros, Inc.	METHOD FOR THE CONVERSION OF PLANT MATERIALS INTO FUELS AND CHEMICALS BY SEQUENTIAL ACTION OF TWO MICROORGANISMS
					Qteros, Inc.	COMPOSITIONS AND METHODS FOR FERMENTATION OF BIOMASS

QTEROS, INC. - Patents

App Number	File Date	Pub Number	Pub Date	Country Name	Inventor	Invention
a/2011/009477	09-Mar-2010			Mexico	Qteros, Inc.	PRODUCTION OF FERMENTIVE END PRODUCTS FROM CLOSTRIDIUM SP.
a/2009/009995	28-Jan-2007			Mexico	University of Massachusetts	SYSTEMS AND METHODS FOR PRODUCING BIOFUELS AND RELATED MATERIALS
a/2011/011037	20-Apr-2011			Mexico	Qteros, Inc.	COMPOSITIONS AND METHODS FOR FERMENTATION OF BIOMASS
To be determined	20-Apr-2010			Malaysia	Qteros, Inc.	COMPOSITIONS AND METHODS FOR FERMENTATION OF BIOMASS
2010-7020569	27-Feb-2009			Korea, Republic of	Qteros, Inc.	METHOD FOR THE CONVERSION OF PLANT MATERIALS INTO FUELS AND CHEMICALS BY SEQUENTIAL ACTION OF TWO MICROORGANISMS
2008-7020796	26-Jan-2007			Korea, Republic of	University of Massachusetts	SYSTEMS AND METHODS FOR PRODUCING BIOFUELS AND RELATED MATERIALS
2011-554130	09-Mar-2010			Japan	Qteros, Inc.	PRODUCTION OF FERMENTIVE END PRODUCTS FROM CLOSTRIDIUM SP.
2010-548930	27-Feb-2009			Japan	Qteros, Inc.	METHOD FOR THE CONVERSION OF PLANT MATERIALS INTO FUELS AND CHEMICALS BY SEQUENTIAL ACTION OF TWO MICROORGANISMS
2008-052980	26-Jan-2007	To be determined	To be determined	Japan	University of Massachusetts	SYSTEMS AND METHODS FOR PRODUCING BIOFUELS AND RELATED MATERIALS
To be determined	20-Apr-2010			Japan	Qteros, Inc.	COMPOSITIONS AND METHODS FOR FERMENTATION OF BIOMASS
W-00201103401	09-Mar-2010			Indonesia	Qteros, Inc.	PRODUCTION OF FERMENTIVE END PRODUCTS FROM CLOSTRIDIUM SP.
W00201003241	27-Feb-2009			Indonesia	Qteros, Inc.	METHOD FOR THE CONVERSION OF PLANT MATERIALS INTO FUELS AND CHEMICALS BY SEQUENTIAL ACTION OF TWO MICROORGANISMS
W00200807450	26-Jan-2007			Indonesia	University of Massachusetts	SYSTEMS AND METHODS FOR PRODUCING BIOFUELS AND RELATED MATERIALS
W00201103797	20-Apr-2010			Indonesia	Qteros, Inc.	COMPOSITIONS AND METHODS FOR FERMENTATION OF BIOMASS
To be determined	09-Mar-2010			India	Qteros, Inc.	PRODUCTION OF FERMENTIVE END PRODUCTS FROM CLOSTRIDIUM SP.
6353/DELNP/10	27-Feb-2009			India	Qteros, Inc.	METHOD FOR THE CONVERSION OF PLANT MATERIALS INTO FUELS AND CHEMICALS BY SEQUENTIAL ACTION OF TWO MICROORGANISMS
7164/DELNP/08	26-Jan-2007			India	University of Massachusetts	SYSTEMS AND METHODS FOR PRODUCING BIOFUELS AND RELATED MATERIALS
8140/DELNP/11	20-Apr-2010			India	Qteros, Inc.	COMPOSITIONS AND METHODS FOR FERMENTATION OF BIOMASS

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QTEROS, INC. - Patents

Patent Number	Date	Patent Number	Date	Country	Owner	Title
83	To be determined			India	Qteros, Inc.	
84	11103658.4	27-Feb-2009		Hong Kong	Qteros, Inc.	COMPOSITIONS AND METHODS FOR IMPROVED SACCHARIFICATION OF BIOMASS
	To be determined	29-Jun-2009		Hong Kong	University of Massachusetts	METHOD FOR THE CONVERSION OF PLANT MATERIALS INTO FUELS AND CHEMICALS BY SEQUENTIAL ACTION OF TWO MICROORGANISMS
85	113102271.3	07-Mar-2011		Hong Kong	Qteros, Inc.	SYSTEMS AND METHODS FOR PRODUCING BIOGUELS AND RELATED MATERIALS
I	09803498.6	28-Jul-2009		European Patent Convention	Qteros / University of Massachusetts	COMPOSITIONS AND METHODS FOR IMPROVED SACCHARIFICATION OF BIOMASS
86	10751311.1	09-Mar-2010		European Patent Convention	Qteros, Inc.	METHODS AND COMPOSITIONS FOR IMPROVING THE PRODUCTION OF ETHANOL IN MICROORGANISMS
87	09714152.6	27-Feb-2009		European Patent Convention	Qteros, Inc.	PRODUCTION OF FERMENTIVE END PRODUCTS FROM CLOSTRIDIUM SP.
	<del>07267958.0</del>	<del>26-Jan-2007</del>		European Patent Convention	University of Massachusetts	METHOD FOR THE CONVERSION OF PLANT MATERIALS INTO FUELS AND CHEMICALS BY SEQUENTIAL ACTION OF TWO MICROORGANISMS
88	10767662.9	20-Apr-2010		European Patent Convention	Qteros, Inc.	SYSTEMS AND METHODS FOR PRODUCING BIOGUELS AND RELATED MATERIALS
	<del>090879299</del>	<del>26-Jan-2002</del>		European Patent Organisation	University of Massachusetts	COMPOSITIONS AND METHODS FOR FERMENTATION OF BIOMASS
89	11-124.646	09-Mar-2010		Colombia	Qteros, Inc.	SYSTEMS AND METHODS FOR PRODUCING BIOGUELS AND RELATED MATERIALS
90	10-107.254	27-Feb-2009		Colombia	Qteros, Inc.	PRODUCTION OF FERMENTIVE END PRODUCTS FROM CLOSTRIDIUM SP.
	<del>09-088.402</del>	<del>26-Jan-2007</del>		Colombia	University of Massachusetts	METHOD FOR THE CONVERSION OF PLANT MATERIALS INTO FUELS AND CHEMICALS BY SEQUENTIAL ACTION OF TWO MICROORGANISMS
91	11-139.799	20-Apr-2010		Colombia	Qteros, Inc.	SYSTEMS AND METHODS FOR PRODUCING BIOGUELS AND RELATED MATERIALS
92	1080018806.3	09-Mar-2010		China (People's Republic)	Qteros, Inc.	COMPOSITIONS AND METHODS FOR FERMENTATION OF BIOMASS
93	0980210745.0	27-Feb-2009		China (People's Republic)	Qteros, Inc.	PRODUCTION OF FERMENTIVE END PRODUCTS FROM CLOSTRIDIUM SP.
	<del>07267958.0</del>	<del>26-Jan-2007</del>		China (People's Republic)	University of Massachusetts	METHOD FOR THE CONVERSION OF PLANT MATERIALS INTO FUELS AND CHEMICALS BY SEQUENTIAL ACTION OF TWO MICROORGANISMS
94	1080017643.7	20-Apr-2010		China (People's Republic)	Qteros, Inc.	SYSTEMS AND METHODS FOR PRODUCING BIOGUELS AND RELATED MATERIALS
95	To be determined	29-Jun-2010		China (People's Republic)	Qteros, Inc.	COMPOSITIONS AND METHODS FOR FERMENTATION OF BIOMASS
					Qteros, Inc.	COMPOSITIONS AND METHODS FOR IMPROVED SACCHARIFICATION OF BIOMASS



QTEROS, INC. - Patents

Patent No.	Pub. No.	Pub. Date	Country	Inventor	Description
96 2,754,910		09-Mar-2010	Canada	Qteros, Inc.	PRODUCTION OF FERMENTIVE END PRODUCTS FROM CLOSTRIDIUM SP.
97 2,716,493		27-Feb-2009	Canada	Qteros, Inc.	METHOD FOR THE CONVERSION OF PLANT MATERIALS INTO FUELS AND CHEMICALS BY SEQUENTIAL ACTION OF TWO MICROORGANISMS
98 To be determined		20-Apr-2010	Canada	University of Massachusetts	SYSTEMS AND METHODS FOR PRODUCING BIOFUELS AND RELATED MATERIALS
99 To be determined		09-Mar-2010	Brazil	Qteros, Inc.	COMPOSITIONS AND METHODS FOR FERMENTATION OF BIOMASS
100 PI 0908206-9		27-Feb-2009	Brazil	Qteros, Inc.	PRODUCTION OF FERMENTIVE END PRODUCTS FROM CLOSTRIDIUM SP.
101 To be determined		20-Apr-2010	Brazil	University of Massachusetts	SYSTEMS AND METHODS FOR PRODUCING BIOFUELS AND RELATED MATERIALS
102 201.0234284		09-Mar-2010	Australia	Qteros, Inc.	COMPOSITIONS AND METHODS FOR FERMENTATION OF BIOMASS
103 2009219150		27-Feb-2009	Australia	Qteros, Inc.	PRODUCTION OF FERMENTIVE END PRODUCTS FROM CLOSTRIDIUM SP.
104 2010239313		20-Apr-2010	Australia	Qteros, Inc.	METHOD FOR THE CONVERSION OF PLANT MATERIALS INTO FUELS AND CHEMICALS BY SEQUENTIAL ACTION OF TWO MICROORGANISMS
105 20100102327		29-Jan-2010	Argentina	Qteros, Inc.	COMPOSITIONS AND METHODS FOR FERMENTATION OF BIOMASS
				Qteros, Inc.	COMPOSITIONS AND METHODS FOR IMPROVED SACCHARIFICATION OF BIOMASS

EXHIBIT C

Trademarks

Registration Number: 3796776 Mark: QTEROS

Registration Number: 3781610 Mark: Q MICROBE

EXHIBIT D

Mask Works

None