PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4167144

SUBMISSION TYPE:	CORRECTIVE ASSIGNMENT
NATURE OF CONVEYANCE:	Corrective Assignment to correct the PCT SERIAL NUMBER FROM US2014002266 TO US2014022668 previously recorded on Reel 040416 Frame 0026. Assignor(s) hereby confirms the CORRECT PCT SERIAL NUMBER IS US2014022668.

CONVEYING PARTY DATA

Name	Execution Date
ALGAE SYSTEMS, LLC	11/22/2016

RECEIVING PARTY DATA

Name:	IHI INC.	
Street Address:	150 EAST 52ND STREET	
Internal Address:	24TH FLOOR	
City:	NEW YORK	
State/Country:	NEW YORK	
Postal Code:	10022	

PROPERTY NUMBERS Total: 27

Property Type	Number
Application Number:	10514224
Application Number:	10924742
Application Number:	11106695
Patent Number:	8507253
Patent Number:	8110395
Patent Number:	7980024
Patent Number:	8859262
Patent Number:	8507264
Application Number:	13828143
Application Number:	13829098
Application Number:	13829543
Application Number:	13964912
Patent Number:	8877488
Application Number:	60380179
Application Number:	60497445
Application Number:	60562057
Application Number:	60589527

PATENT REEL: 040798 FRAME: 0363

504120474

Property Type	Number
Application Number:	60926569
Application Number:	60926622
Application Number:	61400523
Application Number:	61664532
Application Number:	62161039
PCT Number:	US2014022715
PCT Number:	US2013044053
PCT Number:	US2008005383
PCT Number:	US2007015513
PCT Number:	US2014022668

CORRESPONDENCE DATA

Fax Number: (312)876-7934

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.

Phone: 312-876-8000

Email: patents.us@dentons.com, dianetatiana.filatov@dentons.com

Correspondent Name: DENTONS US LLP Address Line 1: P.O. BOX 061080

Address Line 2: WACKER DRIVE STATION, WILLIS TOWER

Address Line 4: CHICAGO, ILLINOIS 60606

ATTORNEY DOCKET NUMBER:	30000470-0001	
NAME OF SUBMITTER:	DIANE TATIANA FILATOV	
SIGNATURE:	/Diane Tatiana Filatov/	
DATE SIGNED:	12/02/2016	

Total Attachments: 17

Total Attachments: 17
source=11-25 Cover Sheet and IP Assignment#page1.tif
source=11-25 Cover Sheet and IP Assignment#page2.tif
source=11-25 Cover Sheet and IP Assignment#page3.tif
source=11-25 Cover Sheet and IP Assignment#page4.tif
source=11-25 Cover Sheet and IP Assignment#page5.tif
source=11-25 Cover Sheet and IP Assignment#page6.tif
source=11-25 Cover Sheet and IP Assignment#page7.tif
source=11-25 Cover Sheet and IP Assignment#page8.tif
source=11-25 Cover Sheet and IP Assignment#page9.tif
source=11-25 Cover Sheet and IP Assignment#page10.tif
source=11-25 Cover Sheet and IP Assignment#page11.tif
source=11-25 Cover Sheet and IP Assignment#page12.tif
source=11-25 Cover Sheet and IP Assignment#page13.tif
source=11-25 Cover Sheet and IP Assignment#page14.tif
source=11-25 Cover Sheet and IP Assignment#page15.tif
source=11-25 Cover Sheet and IP Assignment#page16.tif

source=11-25 Cover Sheet and IP Assignment#page17.tif

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4157230

SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	ASSIGNMENT	

CONVEYING PARTY DATA

Name	Execution Date
ALGAE SYSTEMS, LLC	11/22/2016

RECEIVING PARTY DATA

Name:	IHI INC.	
Street Address:	150 EAST 52ND STREET	
Internal Address:	24TH FLOOR	
City:	NEW YORK	
State/Country:	NEW YORK	
Postal Code:	10022	

PROPERTY NUMBERS Total: 27

Property Type	Number
Application Number:	60380179
Application Number:	60497445
Application Number:	60562057
Application Number:	60589527
Application Number:	10514224
Application Number:	10924742
Application Number:	11106695
Application Number:	13964912
Patent Number:	8110395
Patent Number:	8507264
Patent Number:	8877488
PCT Number:	US2007015513
Application Number:	60926622
Application Number:	60926569
Patent Number:	7980024
Patent Number:	8859262
PCT Number:	US2008005383
Application Number:	61400523
Application Number:	61664532

PATENT REEL: 040798 FRAME: 0366

504110560

Property Type	Number
Application Number:	13828143
PCT Number:	US2013044053
Application Number:	13829098
PCT Number:	US2014022715
Application Number:	13829543
PCT Number:	US2014002266
Application Number:	62161039
Patent Number:	8507253

CORRESPONDENCE DATA

Fax Number: (973)912-7199

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.

Phone: 973-912-7174

Email: patents.us@dentons.com

Correspondent Name: DENTONS US LLP Address Line 1: P.O. BOX 061080

Address Line 2: WACKER DRIVE STATION, WILLIS TOWER

Address Line 4: CHICAGO, ILLINOIS 60606

ATTORNEY DOCKET NUMBER:	30000470-0001
NAME OF SUBMITTER:	JOEL N. BOCK
SIGNATURE:	/joel bock/
DATE SIGNED:	11/25/2016

Total Attachments: 15

source=IHI_IP Assignment#page1.tif
source=IHI_IP Assignment#page2.tif
source=IHI_IP Assignment#page3.tif
source=IHI_IP Assignment#page4.tif
source=IHI_IP Assignment#page5.tif
source=IHI_IP Assignment#page6.tif
source=IHI_IP Assignment#page7.tif
source=IHI_IP Assignment#page8.tif
source=IHI_IP Assignment#page9.tif
source=IHI_IP Assignment#page10.tif
source=IHI_IP Assignment#page11.tif
source=IHI_IP Assignment#page12.tif
source=IHI_IP Assignment#page13.tif
source=IHI_IP Assignment#page13.tif
source=IHI_IP Assignment#page15.tif

INTELLECTUAL PROPERTY ASSIGNMENT AND BILL OF SALE

This Intellectual Property Assignment and Bill of Sale ("Assignment") dated as of November 22, 2016, is made by Algae Systems, LLC, a Delaware limited liability company ("Assignor") and IHI Inc., a Delaware corporation ("Assignee").

WHEREAS, Assignor, having a place of business at 9120 Double Diamond Parkway #4481, Reno, Nevada 89521, has developed certain Intellectual Property (as such term is defined herein), including patent, copyright, trademark and trade secret rights and related goodwill and know-how;

WHEREAS, Assignor and Assignee, having a place of business at 150 East 52nd Street, 24th Floor, New York, New York 10022, entered into a Term Loan Facility Agreement, dated as of December 12, 2014, as amended ("Term Loan Facility"), and an Intellectual Property Security Agreement, dated as of January 29, 2016 (the "Intellectual Property Security Agreement"), and Assignee filed a UCC Financing Statement, all in connection with the Term Loan Facility and Intellectual Property Security Agreement;

WHEREAS, Assignor has defaulted on certain obligations between Assignor and Assignee as set forth in the Term Loan Facility, including, without limitation, failing to pay the indebtedness on the maturity date of the Term Loan Facility and such defaults have not been cured by Assignee;

WHEREAS, Assignee provided notice to Assignor on November 1, 2016, that Assignee intended to accept the collateral listed below in full satisfaction of the indebtedness owed to Assignee under the Term Loan Facility pursuant to the Uniform Commercial Code, and Assignee did not receive any objection thereto authenticated by the Assignor pursuant to Section 9-620 of the Uniform Commercial Code;

WHEREAS, pursuant to the Intellectual Property Security Agreement and the Uniform Commercial Code, Assignee is hereby taking possession and ownership of the Intellectual Property of Assignor and has a power of attorney to effectuate the same; and

WHEREAS, based on Assignor's uncured default, Assignee is entitled to own the entire right, title and interest in and to the Intellectual Property, including all U.S. and foreign patent, trademark, and copyright rights, and all trade secret rights therein related to the Intellectual Property, and all licenses and all rights relating thereto;

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which is hereby mutually acknowledged, Assignor confirms its assignment, sale, transfer, grant and conveyance to, and agrees to and hereby does assign, sell, transfer, grant, and convey to Assignee, its successors and assigns all of Assignor's worldwide rights, title and interest and benefit in and to the Intellectual Property, including, without limitation, all of its worldwide rights, title, interest and benefit in and to its patent rights therein (if any) under the patent laws of the United States and all foreign countries for the full term or terms thereof (and including all patent rights accruing by reason of patent treaties and conventions) including, but not limited to, any reissues, reexamination certificates, divisionals or continuations (including continuations-in-part), extensions and renewals thereof now or hereafter provided by law, and all rights to make

10183345770-5

applications for and receive patents issuing therefrom, insofar as any patent right in the Intellectual Property or any part thereof is not considered to vest in or be owned by Assignee by operation of law; all copyright rights therein under the copyright laws of the United States and all foreign countries for the full term or terms thereof (and including all copyright rights accruing by reason of copyright treaties and conventions) including, but not limited to, any renewals, extensions or revisions thereof now or hereafter provided by law, and all rights to make applications for and receive copyright registrations therefor, insofar as any copyright right in the Intellectual Property or any part thereof is not considered to vest in or be owned by Assignee by operation of law, and Assignor waives any and all moral rights that it may have therein; its trade secret rights included in the Intellectual Property under the laws of the United States and all foreign countries for the full term or terms thereof, insofar as any trade secret rights in the Intellectual Property or any part thereof is not considered to vest in or be owned by Assignee by operation of law; its trademark/service mark rights therein under the trademark laws of the United States and all foreign countries for the full term or terms thereof (and including all trademark rights accruing by reason of trademark treaties and conventions) including, but not limited to, any renewals, extensions or revisions thereof now or hereafter provided by law, and all rights to make applications for and receive trademark/service mark registrations therefor, insofar as any trademark/service mark right in the Intellectual Property or any part thereof is not considered to vest in or be owned by Assignee by operation of law; and including, without limitation, the right to sue for, assert claims or demands, settle and/or release, and recover damages and all other remedies, for any past, present and/or future infringement thereof; and including, without limitation, the goodwill of the business in connection with which each of the trademarks/service marks is used and which is symbolized by each of the trademarks/service marks, the same to be held and enjoyed by Assignee, its successors and assigns to the same extent that such rights, title and interest, if any, would have been held and enjoyed by Assignor if this Assignment had not been made.

For purposes of this Assignment, the term "Intellectual Property" shall mean:

- (A) the patents and patent applications identified on **Schedule 1** hereof, and all corresponding worldwide patent applications and patents and all continuations, divisionals, reissues, reexamination certificates, extensions and renewals thereto, and all other patents owned by or licensed to Assignor that relate to hydrothermal liquefaction technology, algae cultivation, algae to bio-fuel technology, wastewater treatment methods via algae cultivation, bio-fuel development, related methods for making and/or using such items (collectively, "Field of Use"), and all Improvements thereto (the "Patents");
- (B) as related to the subject matter of the Patents, any and all inventions, Improvement, software, firmware, engineering drawings, test specifications, technical manuals, technical data, Confidential Information, materials, trade secrets, technology, formulas, processes, and ideas in any form in which the foregoing may exist, that are (i) owned or controlled by Assignor as of the date hereof, and (ii) that are developed, owned or controlled by Assignor after the date hereof related to the Field of Use (the "Technology"). Without limiting the foregoing, Technology includes all items identified on Schedule 1 and all Technology provided to Assignee pursuant to Section 14.8 of the Patent and Technology License Agreement, dated as of January 29, 2016, entered between Assignor and Assignee ("License Agreement"):
- (C) all data obtained by Assignor regarding product studies, test results and independent studies for all uses of the applications and Patents, the Know-how (as

Page 2

defined below) and/or the Technology, and data provided to Assignee pursuant to Section 14.8 of the License Agreement ("Licensor Data");

- (D) all know-how and trade secrets (i) owned or controlled by Assignor as of the date hereof, and (ii) developed, owned or controlled by Assignor after the date hereof related to the Field of Use ("Know-how"). Without limiting the foregoing, Know-how includes the Know-how identified on Schedule 1, and know-how and trade secrets provided to Assignee pursuant to Section 14.8 of the License Agreement;
- (E) all right, title, benefit and interest in the License Agreement and any other license agreements ("Other License Agreements") entered into by the Assignor covering or relating to any of the foregoing;
- (F) any and all trademark registrations and applications, together with the goodwill connected with the use thereof and symbolized thereby and all extensions and renewals thereof ("Trademarks") and any and all copyright registrations and applications, including all extensions and renewals thereof ("Copyrights") and other tangible and intangible intellectual property arising from or in connection with any of the foregoing; and
- (G) all related goodwill and related assets.

Assignor authorizes and requests the United States Patent and Trademark Office and/or head of any foreign patent office to issue all patents which may issue on an application for any patent representing the Intellectual Property, as the case may be, to Assignee, its successors and assigns, in accordance with this Assignment.

Assignor authorizes and requests the United States Patent and Trademark Office and/or head of any foreign patent office to issue all trademark registrations which may issue on an application for any trademark representing the Intellectual Property, as the case may be, to Assignee, its successors and assigns, in accordance with this Assignment.

Assignor authorizes and requests the Register of Copyrights and or head of any foreign Copyright Office to issue all copyright registrations representing the Intellectual Property which may issue on an application for any copyright representing the Intellectual Property to Assignee, its successors and assigns, in accordance with this Assignment.

Assignor hereby covenants that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment and sale.

Assignor further covenants that Assignee will, upon its request, be provided promptly with all pertinent facts and documents relating to said applications, and said Intellectual Property as may be known and accessible to Assignor and/or its employees, and Assignor will cause its relevant employees to testify as to the same in any interference, litigation or proceeding related thereto and will promptly execute and deliver, or cause to be executed and delivered, to Assignee or its legal representative any and all papers, instruments or affidavits required to apply for, obtain, maintain, defend and enforce said Intellectual Property which may be necessary or desirable to carry out the purposes hereof.

Assignee has a power of attorney to act for the Assignor pursuant to the Intellectual Property Security Agreement and the Uniform Commercial Code.

Page 3

Governing Law. This Assignment shall be governed by and construed and enforced in accordance with the laws of the State of New York, without regard to the choice of laws rules of such State.

<u>Counterparts</u>. This Assignment may be executed, via facsimile or otherwise, in one or more counterparts that in the aggregate shall comprise one Assignment.

[signatures on following page]

In Witness Whereof, the Assignor and Assignee have caused to be executed this instrument effective as of the date first written above.

ALGAE SYSTEMS, LLC (ASSIGNOR)	IHI INC. (ASSIGNEE)
	- A
Name: Yuta Hushimoto	Name: Yista Idacloi wata
Title: Authorized Representative	Name: Yuta Hashi woto Title: Monoglo of Non Energy Bushes, Div.
STATE OF NEW YORK	
COUNTY OF 12 / SS.	
On this 22nd day of November, 2016, be	efore me personally appeared Yoka Hashi mato

the person who executed the above Assignment.

My Commission expires: June 5, 2019 [Seal]

SCHEDULE 1

PATENTS/APPLICATIONS, TECHNOLOGY AND KNOW-HOW

Licensor Patents:

See Attached Patent and Trademark Schedule

Licensor Know-how and Technology:

- A. All Know-how and Technology in association with:
 - (1) Algae species, cultivation and controls
 - (2) Wastewater treatment by algae cultivation
 - (3) Sterilization of wastewater
 - (4) Dewatering and concentration from algae water
 - (5) Bio-fuel production from bio-oil
 - (6) Research and design of the bio reactor bag
- B. All Know-how, Technology, designs and Licensor Data related to Licensor's pilot plant(s), including, without limitation, the following:
 - (1) Material balance and energy balance
 - (2) Piping and instrumentation diagrams
 - (3) Equipment lists
 - (4) Instrument lists
 - (5) One-line diagrams
 - (6) General arrangement drawings
 - (7) Cost data for the pilot plant construction
- C. Operation Know-how and Licensor Data related to:
 - (1) Algae cultivation and wastewater treatment
 - (2) Bio-oil production
- D. Feasibility engineering data

101833453465

Patent and Trademark Schedule

n ublic- atent	untry	Filing Date		Inventors	Priority	Status
		5/14/2002	Photobioreactor and process for mitigation of flue-gases	Isaac Berzin		Expired Provisional
	us	8/22/2003	Hydrogen production using biomass produced by photobioreactors configured for mitigation of pollutants	Isaac Berzin		Expired Provisional
		4/14/2005	Synthetic and biologically-derived polymers produced using biomass produced by photobioreactors	Isaac Berzin		Expired Provisional
	SO	7/16/2004	Photobioreactor Cell Culture Systems, Methods for Pre- conditioning Photosynthetic Organisms and Cultures of Photosynthetic Organisms Produced Thereby	Isaac Berzin		Expired Provisional
553	OS .	5/26/2005	reactor and process for production and mitigation of in flue gases	Isaac Berzin		Abandoned
277	US C	8/23/2004	Hydrogen production with photosynthetic organisms and from biomass derived therefrom	Isaac Berzin		Abandoned
	ns.	4/14/2005	Synthetic and biologically-derived products produced using biomass produced by photobioreactors configured for mitigation of pollutants	Isaac Berzin		Abandoned
PCT/US2005/02 5367	PCT	7/18/2005		Isaac Berzin	60/589,527	Closed-Completed National Applications

Application Number/Public- ation Number/Patent Number	Country	Filing Date	Title	Inventors	Priority	Status
11/632,541 2009/0011492 8,507,253	Sn	3/14/2008	Photobioreactor Cell Culture Systems, Methods for Pre- conditioning Photosynthetic Organisms and Cultures of Photosynthetic Organisms Produced Thereby	Isaac Berzin	371 of PCT/US05/025367	Issued
13/964,912 2014/0011263	NS .	8/12/2013	Photobioreactor Cell Culture Systems, Methods for Pre- conditioning Photosynthetic Organisms and Cultures of Photosynthetic Organisms Produced Thereby	Isaac Berzin	11/632,541; PCT/US05/025367	Abandoned
2005274791	AU	7/18/2005	Photobioreactor Cell Culture Systems, Methods for Pre- conditioning Photosynthetic Organisms and Cultures of Photosynthetic Organisms Produced Thereby	Isaac Berzin	PCT Based PCT/US2005/025367	Issued
4P/2	<u>Z</u>	7/18/2005	Photobioreactor Cell Culture Systems, Methods for Pre- conditioning Photosynthetic Organisms and Cultures of Photosynthetic Organisms Produced Thereby	Isaac Berzin	PCT Based PCT/US2005/025367	Issued
60/819,976 [Serial Number is Uncertain]	Sn	7/10/2006	Photobioreactor Cell Culture Systems, Methods for Treating C02- enriched gas and Producing Biomass	John Lewnard; Xiaoxi Wu		Provisional Converted to full application by Request
739	US	7/10/2006	Photobioreactor Cell Culture Systems, Methods for Treating C02- enriched gas and Producing Biomass	John Lewnard; Xiaoxi Wu		lssued
13/312,743 2012/0100603 8,507,264	US	12/6/2011	Photobioreactor Cell Culture Systems, Methods for Treating C02- enriched gas and Producing Biomass	John Lewnard; Xiaoxi Wu	11/818,962	Issued

Application Number/Public- ation Number/Patent Number	Country	Filing Date	Title	Inventors	Priority	Status
13/965,173 2013/0330810 8,877,488	sn	8/12/2013	Photobioreactor Cell Culture Systems, Methods for Treating C02- enriched gas and Producing Biomass	John Lewnard; Xiaoxi Wu	11/818,962 13,312,743	Issued
PCT/US2007/01 5513	PCT	7/6/2007	Photobioreactor Cell Culture Systems, Methods for Treating C02- enriched gas and Producing Biomass	John Lewnard; Xiaoxi Wu	11,818,962	Closed - completed national applications
2007273128	AU	7/6/2007	Photobioreactor Cell Culture Systems, Methods for Treating C02- enriched gas and Producing Biomass	John Lewnard; Xiaoxi Wu	PCT/US2007/015513	Issued
2013202436	AU	4/4/2013	Photobioreactor Cell Culture Systems, Methods for Treating C02- enriched gas and Producing Biomass	John Lewnard; Xiaoxi Wu	PCT/US2007/015513 2007273128	accepted
P10714051-7	ВК	7/6/2007	Photobioreactor Cell Culture Systems, Methods for Treating C02- enriched gas and Producing Biomass	John Lewnard; Xiaoxi Wu	PCT/US2007/015513	Abandoned
7835991.6	EPO	7/6/2007	Photobioreactor Cell Culture Systems, Methods for Treating C02- enriched gas and Producing Biomass	John Lewnard; Xiaoxi Wu	PCT/US2007/015513	Pending
	\mathfrak{I}	7/7/2007	Photobioreactor Cell Culture Systems, Methods for Treating C02- enriched gas and Producing Biomass	John Lewnard; Xiaoxi Wu	PCT/US2007/015513	Abandoned
2009/00933	ZA	7/8/2007	Photobioreactor Cell Culture Systems, Methods for Treating C02- enriched gas and Producing Biomass	John Lewnard; Xiaoxi Wu	PCT/US2007/015513	Abandoned

n ublic- atent	Country	Filing Date	Title	Inventors	Priority	Status
2	SO	4/27/2007	Photobioreactor Systems Positioned on Bodies of Water	Isaac Berzin; Benjamin F. Polito; Javier de Luis; David Fair; Joe Parrish; Fan Chen; Keith Richtman		Expired Provisional
60/926,569	CO.	4/27/2007	Photobioreactor Systems Positioned on Bodies of Water	Isaac Berzin; Benjamin F. Polito; Javier de Luis, David Fair; Joe Parrish; Fan Chen; Keith Richtman		Expired Provisional
12/110,178 2009/0130706 7,980,024	US	4/25/2008	Photobioreactor Systems Positioned on Bodies of Water	Isaac Berzin; Javier de Luis; Javier de Luis; David Fair, Joe Parrish; Keith Richtman; Fan Chen; Benjamin F. Polito; Miles Walker; Ben Fowler; Kevin Lockwood; Miguel Olaizola	Claims benefit of 60/926,622 filed 4/27/2007 and 60/926,569 filed 4/27/2007	Issued

ڊ تt	Country	at a		Inventors	Priority	Status
_	Sn	7/18/2011	Photobioreactor Systems Positioned on Bodies of Water	Isaac Berzin; Javier de Luis; David Fair; Joe Parrish; Keith Richtman; Fan Chen; Benjamin F. Polito; Miles Walker; Ben Fowler; Kevin Lockwood; Miguel Olaizola	Claims benefit of 60/926,622, 60/926,569 and 12/110,178	pənssı
005383	PCT	4/25/2008	Photobioreactor Systems Positioned on Bodies of Water	g #	Claims Benefit of 60/926,569 filed 4/27/2007 and 60/926,622 filed 4/27/2007	Closed; National Filings

Application Number/Public- ation Number/Patent Number	Country	Filing Date	Title	Inventors	Priority	Status
AP/P/2009/ 005054	AP	4/25/2008	Photobioreactor Systems Positioned on Bodies of Water	Isaac Berzin; Benjamin F. Polito; Javier de Luis; David Fair; Joe Parrish; Fan Chen; Keith Richtman	60/926,569 60/926,622 PCT/US2008/005383	Pending
***	AU	4/25/2008	Photobioreactor Systems Positioned on Bodies of Water	same as above	60/926,569 60/926,622 PCT/US2008	Accepted
99	AU	5/20/2014	Method and Apparatus for the Prevention of Biological Fouling of Photobioreactors	same as above	60/926,569 60/926,622 PCT/US2008 AU2008246176	Accepted
***	EPO	4/25/2008	Photobioreactor Systems Positioned on Bodies of Water	same as above	60/926,569 60/926,622 PCT/US2008	Pending
4115/KOLNP/2 009	<u>Z</u>	4/25/2008	Photobioreactor Systems Positioned on Bodies of Water	same as above	60,926,569 60,926,622 PCT/US2008	Pending Examination requested

Application Number/Public- ation Number/Patent Number	Country	Filing Date	Title	Inventors	Priority	Status
1-2009-502250	PH	4/24/2008	Photobioreactor Systems Positioned on Bodies of Water	same as above	Claims Benefit of 60/926,569 60/926,622 PCT/US2008/005383	Issued
1-2012-502265	PH	11/162012	Photobioreactor Systems Positioned on Bodies of Water	same as above	Claims Benefit of 60/926,569 60/926,622 PCT/US2008/005383 1-2009-502250	Pending Examination requested
2009/08439	ZA	4/25/2008	Photobioreactor Systems Positioned on Bodies of Water	same as above	THE RESIDENCE OF THE RE	Pending
61/400,523	Sn	7/29/2010	Method and Apparatus for the Prevention of Biological Fouling of Photobioreactors	Daniel Plankenhom		Expired Provisional Application
61/664,532	US	6/26/2012	Dewatering Systems and Methods for Algae Concentration	Sherwin Gormly; Matthew Atwood; Andrew Septimus; John Perry Barlow		Expired Provisional

Application Number/Public- ation Number/Patent Number	Country	Filing Date	Title	Inventors	Priority	Status
13/828,143 2013/0341272	Sn	3/14/2013	Dewatering Systems and Methods for Algae Concentration	Sherwin Gormly; Matthew Atwood; Andrew Septimus; John Perry Barlow	61/664,532	Abandoned
4053	PCT	6/4/2013	Dewatering Systems and Methods for Algae Concentration	Sherwin Gormly; Matthew Atwood; Andrew Septimus; John Perry Barlow	13/828,143	Expired
	O.S.	3/14/2013	Systems and Methods for Hydrothermal Conversion of Algae	William Brian Bedwell; Jin- Ping Lim; Esperanza Alvarez; Jordi Perez Mariano; Matthew Atwood		Abandoned
10	PCT	3/10/2014	Systems and Methods for Hydrothermal Conversion of Algae	William Brian Bedwell et al.	13/829,098	Expired
15		·		William Brian II Bedwell et al.		Pending
2014800222753	CN	10/19/2015	Systems and Methods for Hydrothermal Conversion of Algae	William Brian Bedwell et al.	PCT/US14/22715 13/829,098	Pending

Application Number/Publication ation Number/Patent Number	Country	Filing Date	Title	Inventors	Priority	Status
14 768 453.3 EP 2 970 803	EPO	10/14/2015	Systems and Methods for Hydrothermal Conversion of Algae	William Brian Bedwell et al.	PCT/US14/22715 13/829,098	Pending
2016-501043	JP	9/14/2015	Systems and Methods for Hydrothermal Conversion of Algae	William Brian Bedwell et al.	PCT/US14/22715 13/829,098	Pending
13/829,543 2014/0273141	US	3/14/2013	Integrated Biorefinery	Matthew Atwood		Abandoned
PCT/US14/2266 8 WO2014/159246	PCT	3/10/2014	Integrated Biorefinery	Matthew Atwood	13/829,543	Expired
POO201505810	<u>a</u>	9/17/2015	Integrated Biorefinery	Matthew Atwood	PCT/US14/2268 13/829,543	Pending Provisional
62/161,039	ns.	5/13/2015	Integrated Hydrothermal Treatment and Digestion for Waste Materials	Eric Sundstrom; Matthew Atwood; Peter Valdez		Pending Provisional
Reg No. 3,419,757	- The state of the	registered 4/29/2008	GREENFUEL			Registered
Reg No. 3,419,890		registered 4/29/2008	GREENFUEL & DESIGN			Registered

REEL: 040798 FRAME: 0382

PATENT RECORDED: 12/02/2016