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PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5911908

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
KEVIN S. KUNG	02/01/2019
ALEXANDER H. SLOCUM	12/18/2018
SANTOSH JANARDHAN SHANBHOGUE	12/13/2018
AHMED FOUAD GHONIEM	05/21/2019
ROBERT JAMES STONER	01/02/2019

RECEIVING PARTY DATA

Name:	MASSACHUSETTS INSTITUTE OF TECHNOLOGY
Street Address:	77 MASSACHUSETTS AVENUE
City:	CAMBRIDGE
State/Country:	MASSACHUSETTS
Postal Code:	02139

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16613692

CORRESPONDENCE DATA

Fax Number: (617)646-8646

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: 617-646-8000

Email: patents_BrandonB@wolfgreenfield.com,

mitadministrators@wolfgreenfield.com

Correspondent Name: BRANDON S. BLACKWELL

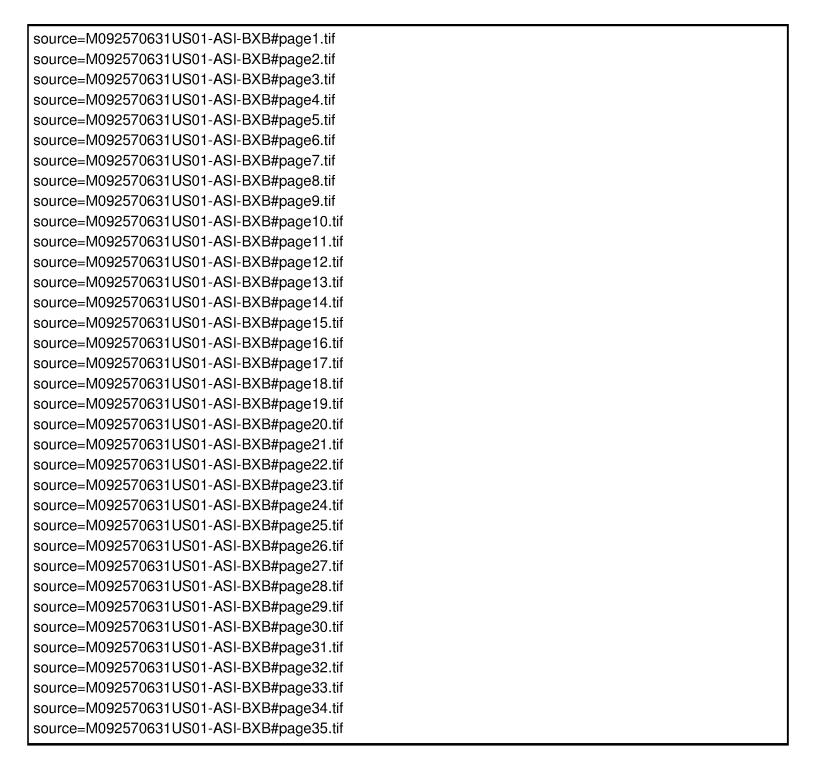
Address Line 1: WOLF, GREENFIELD & SACKS, P.C.

Address Line 2: 600 ATLANTIC AVENUE

Address Line 4: BOSTON, MASSACHUSETTS 02210

ATTORNEY DOCKET NUMBER:	M0925.70631US01	
NAME OF SUBMITTER:	CHRISTEN M. LASHUA	
SIGNATURE:	/Christen M. Lashua/	
DATE SIGNED:	01/15/2020	

Total Attachments: 35



ASSIGNMENT

For good and valuable consideration, the receipt of which is hereby acknowledged, I, the undersigned Assignor, hereby:

- Sell, assign and transfer to Massachusetts Institute of Technology, a Massachusetts Non-profit Corporation having a place of business at 77 Massachusetts Avenue, Cambridge, Massachusetts 02139, its successors, assigns and legal representatives, all hereinafter referred to as the Assignee, my entire right, title and interest for the United States and all foreign countries, in and to any and all inventions and designs which are disclosed in the International Application filed on May 16, 2018 under International Application No. PCT/US2018/033007, bearing Attorney Docket No. M0925.70631WO00, and entitled BIOMASS CONVERSION REACTORS AND ASSOCIATED SYSTEMS AND **METHODS**, and in and to the application and all corresponding provisional, non-provisional, divisional, continuing, substitute, renewal, reissue and all other applications for Letters Patent, utility models, industrial designs or similar intellectual property rights which have been or shall be filed in the United States, internationally, and in any foreign country, including but not limited to China, Japan and Korea, on any of the inventions and designs; and in and to all original and reissued patents which have been or shall be issued in the United States or any other jurisdiction on the inventions and designs, including the right to apply for patent rights in each foreign country and all rights to priority, including the right to claim priority for China. Japan and Korea: as well as the right to sue in its own name and recover damages for past infringement of any United States Letters Patent and foreign patent, including a reasonable royalty relating to provisional rights under 35 U.S.C. § 154(d) that have attached to any published United States patent application, on the inventions and designs;
- 2. Agree that the Assignee may apply for and receive Letters Patent and utility model and industrial design registrations for the inventions and designs in its own name; and when requested, without charge to but at the expense of the Assignee, agree to carry out in good faith the intent and purpose of this Assignment, by executing all non-provisional, divisional, continuing, substitute, renewal, reissue, and all other patent, utility model and industrial design applications on any and all the inventions and designs, by executing all rightful oaths, assignments, powers of attorney and other papers, by communicating to the Assignee all facts known to me relating to the inventions and designs and the history thereof, and generally by doing everything reasonably possible which the Assignee shall consider desirable for aiding in securing and maintaining proper protection for the inventions and designs and for vesting title to the inventions and designs and all applications for patents and all patents on the inventions and designs, in the Assignee:
- 3. Request the Director of the United States Patent and Trademark Office and foreign patent authorities to issue the Letters Patent or other intellectual property rights, including foreign patents, to the Assignee;
- 4. Authorize and request Wolf, Greenfield & Sacks, P.C. to supply any missing application identification information or correct any errors in the application identification information provided above, whether discovered prior to or after recordation:

Attorney Docket No. M0925.70631WO00

- 5. Covenant with the Assignee that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by me and that full right to convey the same as herein expressed is possessed by me; and
- 6. Appoint Assignee, through its designee, my attorney-in-fact to execute, in my name and on my behalf, any and all documents required to effectuate this Assignment, specifically including, but not limited to, those documents specified above and any necessary corrective assignments.

This instrument is executed under seal and signed under the pains and penalties of perjury under the laws of the United States of America.

<u>2/112019</u>		(J(W W \\)
Date /	Inventor:	Kevin'S. Kung
	Address:	20 East 45th Avenue
		Vancouver, British Columbia V5W 1W7
		CANADA
	Citizenship:	US
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Date	Signature	· 1 · W P & 2 · · ·
	Name:	Jayo Kung
	Address:	20 B 45th Ave
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		Cavela
Witness:		
2/1/2019		
Date	Signature	
	Name	
	Name.	florina Feng
	Address:	20 East 45th Avenue
		Vancouver, BC VSWIW7

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Date	Inventor:	Alexander H. Slocum
	Address:	1 Merrill Crossing
		Bow, New Hampshire 03304
		UNITED STATES OF AMERICA
	Citizenship:	US
Witness:		
Date	Signature	
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	Name:	
	۸ ما ما محمد	
	Address:	
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Date	Signature	3
	Name:	
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Date	Inventor:	Santosh Janardhan Shanbhogue
	Address:	36 South Gate Park
		Newton, Massachusetts 02465
		UNITED STATES OF AMERICA
	Citizenship:	
Witness:		
Date	Signature	
	Name:	
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Date	Inventor:	Ahmed Fouad Ghoniem
	Address:	99 High Street
		Winchester, Massachusetts 01890
		UNITED STATES OF AMERICA
	Citizenship:	US
Witness:		
Date	Signature	
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	Name:	
	Address:	
Witness:		
Date	Signature)
	Name:	
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Date	Inventor:	Robert James Stoner
	Address:	41 Beacon Street
		Apartment 5
		Boston, Massachusetts 02108
		UNITED STATES OF AMERICA
	Citizenship:	
Witness:		
Date	Signature	3
	Name:	
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- 3. Request the Director of the United States Patent and Trademark Office and foreign patent authorities to issue the Letters Patent or other intellectual property rights, including foreign patents, to the Assignee;
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Attorney Docket No. M0925,70631WO00

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Attorney Docket No. M0925.70631WO00

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Date	Inventor:	Kevin S. Kung
	Address	20 East 45th Avenue
		Vancouver, British Columbia, V5W 1W7
		CANADA
	Citizenship:	ÜS
Witness:		
Date	Signature)
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PATENT REEL: 051603 FRAME: 0359

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Date 7 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Inventor: Alexander H. Slocum
	Address: 1 Merrill Crossing
	Bow, New Hampshire 03304
	UNITED STATES OF AMERICA
	Citizenship: US
Witness: 12/14/5 Date	Signatura Name: <u>Jeivia fazyesa</u> Address: <u>63 Carey he Apt 2</u> <u>Materon</u> , MA 02472
Witness: 12/18/18 Date	<u>Xeeraud Cael</u> Signature

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Name:

Address:

Date	Inventor	Santosh Janardhan Shanbhogue
	Address:	36 South Gate Park
		Newton, Massachusetts 02465
		UNITED STATES OF AMERICA
	Citizenship:	
Witness:		
Date	Signature	
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Date	Signature	3
	Name:	
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Attorney Docket No. M0925,70631WO00		

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Date	Inventor	Ahmed Fouad Ghoniem
	Address:	99 High Street
		Winchester, Massachusetts 01890
		UNITED STATES OF AMERICA
	Citizenship:	US
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Date	Inventor	Robert James Stoner
	Address:	41 Beacon Street
		Apartment 5
		Boston, Massachusetts 02108
		UNITED STATES OF AMERICA
	Citizenship:	
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	Name:	
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Attorney Docket No. M0925,70631WO00		

PATENT REEL: 051603 FRAME: 0363

ASSIGNMENT

For good and valuable consideration, the receipt of which is hereby acknowledged, I, the undersigned Assignor, hereby:

- Sell, assign and transfer to Massachusetts Institute of Technology, a Massachusetts Non-profit Corporation having a place of business at 77 Massachusetts Avenue, Cambridge, Massachusetts 02139, its successors, assigns and legal representatives, all hereinafter referred to as the Assignee, my entire right, title and interest for the United States and all foreign countries, in and to any and all inventions and designs which are disclosed in the International Application filed on May 16, 2018 under International Application No. PCT/US2018/033007, bearing Attorney Docket No. M0925.70631WO00, and entitled BIOMASS CONVERSION REACTORS AND ASSOCIATED SYSTEMS AND METHODS, and in and to the application and all corresponding provisional, non-provisional, divisional, continuing, substitute, renewal, reissue and all other applications for Letters Patent, utility models, industrial designs or similar intellectual property rights which have been or shall be filed in the United States, internationally, and in any foreign country, including but not limited to China, Japan and Korea, on any of the inventions and designs, and in and to all original and reissued patents which have been or shall be issued in the United States or any other jurisdiction on the inventions and designs, including the right to apply for patent rights in each foreign country and all rights to priority, including the right to claim priority for China, Japan and Korea; as well as the right to sue in its own name and recover damages for past infringement of any United States Letters Patent and foreign patent, including a reasonable royalty relating to provisional rights under 35 U.S.C. § 154(d) that have attached to any published United States patent application, on the inventions and designs:
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Attorney Docket No. M0925,70631WO00

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Attorney Docket No. M0925,70631WO00

Date	Inventor Address	Kevin S. Kung 20 East 45th Avenue Vancouver, British Columbia V5W 1W7 CANADA
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Witness		
Date	Signature	
	Name:	
	Address	
Witness		
Date	Signature	
	Name	
	Address	
Altorney Docket No. M0925.70631WO00		
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Date	Inventor: Alexander H. Slocum
	Address: 1 Merrill Crossing
	Bow, New Hampshire 03304
	UNITED STATES OF AMERICA
	itizenship: US
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Inventor Santosh Janardhan Shanbhogue

Address: 36 South Gate Park

Newton, Massachusetts 02465 UNITED STATES OF AMERICA

Citizenship USA

Witness:

12/13/2018

Date

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Signature

Name:

Georges Directorhypeoles

Address:

85 Auburn Street Apt #203

Cambridge MA 02139 USA

Witness:

12/13/2018

Date

Signature

Name:

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Address

47 LOPEZ St. Cambridge MA

Date Inventor Address Citizenship	Winchester, Massachusetts 01890 UNITED STATES OF AMERICA
Witness	
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Name:	
Address	
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Date Signature	
Name	
Address	

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Date	Inventor Robert James Stoner Address 41 Beacon Street Apartment 5 Boston, Massachusetts 02108 UNITED STATES OF AMERICA
Witness	
Date	Signature
	Name
	Address:
Witness	
Date	Signature
	Name:
	Address:

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Date	Inventor:	Kevin S. Kung
	Address:	20 East 45th Avenue
		Vancouver, British Columbia V5W 1W7
		CANADA
	Citizenship:	US
Witness:		
Date	Signature	•
	Name:	
	Address:	
Witness:		
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	Name:	
	Address:	

Date	Inventor:	Alexander H. Slocum
	Address:	1 Merrill Crossing
		Bow, New Hampshire 03304
		UNITED STATES OF AMERICA
	Citizenship:	US
Witness:		
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	Address:	
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	Name:	
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Date	Inventor:	Santosh Janardhan Shanbhogue
	Address:	36 South Gate Park
		Newton, Massachusetts 02465
		UNITED STATES OF AMERICA
	Citizenship:	
Witness:		
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		9 High Street		
	8.	Vinchester, Massachu		
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Witness: 5/21/2019 Date	Signature (Name; Address;	Yadira Yadira 17 Mas Cambridg	Rive Sachuse WA	12 <u>1</u> 145 AV2 3-31 02139
Witness; <u>05 2-1 /2-6 9</u> Date	Signature Name: Address;	Shartos PT Saastos H 36 South	ブー SHA* Gate Pax	² 18,418€,0€ - K.

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PATENT REEL: 051603 FRAME: 0376

NEWTON MA 02465

Date	Inventor:	Robert James Stoner
	Address:	41 Beacon Street
		Apartment 5
		Boston, Massachusetts 02108
		UNITED STATES OF AMERICA
	Citizenship:	
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	Address:	20 East 45th Avenue	
		Vancouver, British Columb	ia V5W 1W7
		CANADA	
	Citizenship:	US	
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Date	Inventor:	Alexander H. Slocum	
	Address:	1 Merrill Crossing	
		Bow, New Hampshire 0330	4
		UNITED STATES OF AMER	IICA
	Citizenship:	US	
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Date		Inventor:	Santosh Janardhan Shanbho	jue -		
		Address:	36 South Gate Park			
			Newton, Massachusetts 0246	5		
		UNITED STATES OF AMERI	CA.			
		Citizenship:				
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Date	Inventor:	Ahmed Fouad C	Shoniem	
	Address:	99 High Street		
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	Citizenship:	US		
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January 2/2019.		
Date	Inventor:	Robert James Stoner
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	8 8 °	Apartment 5
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ma s	Ma	rgent Oller
Date January 2,2019	Signature	vyavo. Orace
	Name:	Margaret Våden
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	Agaress.	91 Dean St
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Witness:		
January 2019	G.	<u>G. Rigo</u>
Date	Signature	
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	Name:	Augelic A. Rigos
	Address:	62 Bunset Rock Rd

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