

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
Stylesheet Version v1.2

EPAS ID: PAT3604985

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
GEORGE W. HUBER	10/24/2015
ANNE MAE GAFFNEY	10/23/2015
JUNGHO JAE	11/05/2015
YU-TING CHENG	10/07/2014
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	UNIVERSITY OF MASSACHUSETTS
<b>Street Address:</b>	ONE BEACON STREET
<b>Internal Address:</b>	31ST FLOOR
<b>City:</b>	BOSTON
<b>State/Country:</b>	MASSACHUSETTS
<b>Postal Code:</b>	02108
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
Application Number:	14868423
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(216)621-6165
<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>	
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<b>Address Line 2:</b>	NINETEENTH FLOOR
<b>Address Line 4:</b>	CLEVELAND, OHIO 44115
<b>ATTORNEY DOCKET NUMBER:</b>	UMASP0100WOUSA
<b>NAME OF SUBMITTER:</b>	NEIL A. DUCHEZ
<b>SIGNATURE:</b>	/Neil A. DuChez/
<b>DATE SIGNED:</b>	11/06/2015
This document serves as an Oath/Declaration (37 CFR 1.63).	

**Total Attachments: 11**

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Renner Otto Docket No. UMASP0100WOUSA

PATENT (US)

**COMBINED DECLARATION AND ASSIGNMENT FOR UTILITY OR DESIGN PATENT APPLICATION**

Title of Invention:	SYSTEMS AND PROCESSES FOR CATALYTIC PYROLYSIS OF BIOMASS AND HYDROCARBONACEOUS MATERIALS FOR PRODUCTION OF AROMATICS WITH OPTIONAL OLEFIN RECYCLE, AND CATALYSTS HAVING SELECTED PARTICLE SIZE FOR CATALYTIC PYROLYSIS
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As a below named inventor, I hereby declare that this declaration and assignment are directed to:

Application No. ( <i>Express Mail Label No.</i> )	
Filing Date ( <i>Deposit Date</i> )	
Amended on ( <i>if applicable</i> )	

or, if no application is identified above, the attached application.

**DECLARATION**

The above application was made or authorized to be made by me.

I believe that I am the original or an original joint inventor of a claimed invention in the application.

My residence, mailing address and citizenship are as stated below next to my name.

I have reviewed and understand the contents of the application, including the claims.

I hereby acknowledge that any willful false statement made in this declaration is punishable under Section 1001 of Title 18 of the United States Code by fine or imprisonment of not more than five (5) year, or both.

**DOMESTIC PRIORITY CLAIM FOR BENEFIT OF EARLIER U.S./PCT APPLICATION(S) UNDER 35 U.S.C. § 120**

I hereby claim, on my behalf or on behalf of the below-identified Assignee(s), the benefit under 35 U.S.C. § 120 of any United States application(s) or PCT international application(s) designating the United States of America that is/are listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in that/those prior application(s) in the manner provided by the first paragraph of 35 U.S.C. § 112, I acknowledge the duty to disclose material information as defined in 37 C.F.R. § 1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application.

U.S. APPLICATION NUMBER	DATE OF FILING (day, month, year)	PATENT NUMBER
13/394,559	30 April 2012	
PCT/US2010/002472	09 September 2010	

**CLAIM FOR BENEFIT OF EARLIER U.S. PROVISIONAL APPLICATION(S) UNDER 35 U.S.C. § 119(e)**

I hereby claim, on my behalf or on behalf of the below-identified Assignee(s), the benefit under 35 U.S.C. § 119(e) of any United States provisional application(s) that is/are listed below.

U.S. PROVISIONAL APPLICATION NUMBER	DATE OF FILING (day, month, year)
61/241,018	09 September 2009

**FOREIGN PRIORITY CLAIM**

I hereby claim, on my behalf or on behalf of the below-identified Assignee(s), priority benefits under 35 U.S.C. § 119 (a)-(d) or (f), § 172 or § 365(b) of any foreign application(s) for patent, inventor's or plant breeder's rights certificate(s), or § 365(a) of any PCT international application(s) which designated at least one country other than the United States of America, that is/are listed below, and have also identified below any foreign application(s) for patent, inventor's or plant breeder's rights certificate(s) or any PCT international application(s) having a filing date before that of the application(s) on which priority is claimed.

COUNTRY	APPLICATION NUMBER	DATE OF FILING (day, month, year)	PRIORITY NOT CLAIMED

**DUTY OF DISCLOSURE**

I hereby acknowledge the duty to disclose to the Patent and Trademark Office all information known to me to be material to patentability as defined in 37 C.F.R. § 1.56, which in pertinent part states that information is material to patentability when it is not cumulative to information already of record or being made of record in the application, and (1) it establishes, by itself or in combination with other information, a prima facie case of unpatentability of a claim; or (2) it refutes, or is inconsistent with, a position the applicant takes in: (i) opposing an argument of unpatentability relied on by the Office, or (ii) asserting an argument of patentability. A prima facie case of unpatentability is established when the information compels a conclusion that a claim is unpatentable under the preponderance of evidence, burden-of-proof standard, giving each term in the claim its broadest reasonable construction consistent with the specification, and before any consideration is given to evidence which may be submitted in an attempt to establish a contrary conclusion of patentability.

**ASSIGNMENT**

For good and valuable consideration, receipt of which is hereby acknowledged, I have sold and assigned and hereby sell and assign to:

Assignee(s)	Address
University of Massachusetts	225 Franklin Street, Boston, MA 02110

[If more than one assignee is listed, each owns an undivided equal share in the application and underlying invention so far as concerns the United States unless otherwise indicated or agreed to by the assignees.]

and the successors and assigns thereof, the entire right, title and interest to (i) said invention, (ii) said application, (iii) any and all provisional applications on which priority is claimed, any and all related patent applications in the United States or a country foreign thereto, including continuations, continuations-in-part, divisionals, renewals, conversions, substitutes, reexaminations, reissues, convention, international (PCT) and other applications based in whole or in part upon said invention or upon said applications, (iv) any and all patents, including renewals, reissues, certificates of reexamination and extensions thereof granted for said invention or upon said applications, for the full term or terms for which the same may be granted, and (v) all priority rights that are or may be predicated upon or arise from said invention, said applications and said patents.

If the application number and filing date are not set forth above, authorization is hereby given for any attorney of record in the subject patent application to insert below the application number and filing date information

for this application when that information becomes available.

Application No.	
Filing Date	

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


I authorize said Assignee(s) to file in my own name or in its own name applications for patent in any country that are predicated upon or arise from said invention, said applications and said patents.

I appoint said Assignee(s) as my common representative to represent me before all competent International authorities in connection with any international application predicated upon or arising from said invention, said applications and said patents.

I further covenant that Assignee(s) will, upon request, be provided promptly with all pertinent facts and documents relating to said application, said invention and said Letters Patent as may be known and accessible to me and will testify as to the same in any proceeding related thereto and will promptly execute and deliver to Assignee(s), or the legal representative thereof, any and all papers, instruments or affidavits required to apply for, obtain, maintain and enforce said application, said invention and said Letters Patent which may be necessary or desirable to carry out the purposes hereof.

I agree to perform all affirmative acts which may be necessary to obtain a grant of a valid U.S. patent and any foreign patents to the Assignee(s) and to vest all rights hereby conveyed to the Assignee(s) as fully and entirely as the same would have been held by me if this Assignment had not been made.

I agree that this assignment shall be construed in accordance with the law of the state/country in which the first above-listed Assignee is located as above indicated, and without regard to its conflicts of laws provisions.

<b>Full Name of Sole or First Inventor:</b>		George W. HUBER	
Inventor's signature:		Date:	10/24/15
Residence: (City & State/Country):	Middleton, WI 53562	Citizenship:	US
Post Office Address:	8556 Stonebrook Circle Middleton, WI 53562		

<b>Full Name of Additional Joint Inventor (if any)</b>		Anne Mae GAFFNEY	
Inventor's signature:		Date:	
Residence: (City & State/Country):	West Chester, PA 19380	Citizenship:	US
Post Office Address:	805 Copeland School Road, West Chester, PA 19380		

<b>Full Name of Additional Joint Inventor (if any):</b>		Jungho JAE	
Inventor's signature:		Date:	
Residence: (City & State/Country):	Amherst, MA 01002	Citizenship:	KR
Post Office Address:	1001 North Pleasant Street, Crestview Apt. 24A, Amherst, MA 01002.		

<b>Full Name of Additional Joint Inventor (if any)</b> Yu-Ting CHENG			
Inventor's signature:		Date:	
Residence: (City & State/Country):	Amherst, MA 01002	Citizenship:	TW
Post Office Address:	81 Belchertown Road, Apt. 30, Amherst, MA 01002		

**COMBINED DECLARATION AND ASSIGNMENT FOR UTILITY OR DESIGN PATENT APPLICATION**

Title of Invention:	SYSTEMS AND PROCESSES FOR CATALYTIC PYROLYSIS OF BIOMASS AND HYDROCARBONACEOUS MATERIALS FOR PRODUCTION OF AROMATICS WITH OPTIONAL OLEFIN RECYCLE, AND CATALYSTS HAVING SELECTED PARTICLE SIZE FOR CATALYTIC PYROLYSIS
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**DOMESTIC PRIORITY CLAIM FOR BENEFIT OF EARLIER U.S./PCT APPLICATION(S) UNDER 35 U.S.C. § 120**

I hereby claim, on my behalf or on behalf of the below-identified Assignee(s), the benefit under 35 U.S.C. § 120 of any United States application(s) or PCT international application(s) designating the United States of America that is/are listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in that/those prior application(s) in the manner provided by the first paragraph of 35 U.S.C. § 112, I acknowledge the duty to disclose material information as defined in 37 C.F.R. § 1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application.

U.S. APPLICATION NUMBER	DATE OF FILING (day, month, year)	PATENT NUMBER
13/394,559	30 April 2012	
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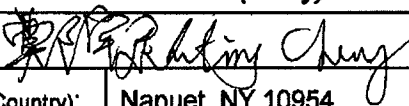
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<b>Full Name of Sole or First Inventor:</b>		George W. HUBER	
Inventor's signature:		Date:	
Residence: (City & State/Country):	Belchertown, MA 01007	Citizenship:	US
Post Office Address:	6 Gulf Road, Belchertown, MA 01007		

<b>Full Name of Additional Joint Inventor (if any)</b>		Anne Mae GAFFNEY	
Inventor's signature:	<i>Anne Mae Gaffney</i>	Date:	10-23-2015
Residence: (City & State/Country):	West Chester, PA 19380	Citizenship:	US
Post Office Address:	805 Copeland School Road, West Chester, PA 19380		

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Inventor's signature:		Date:	
Residence: (City & State/Country):	Amherst, MA 01002	Citizenship:	KR
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<b>Full Name of Additional Joint Inventor (if any)</b> Yu-Ting CHENG			
Inventor's signature:		Date:	10/07/2015
Residence: (City & State/Country):	Nanuet, NY 10954	Citizenship:	TW
Post Office Address:	Normandy Village 38, Apt 4 Nanuet, NY 10954		

Renner Otto Docket No.	UMASP0100WOUSA
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PATENT (US)

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<b>Full Name of Sole or First Inventor:</b>		George W. HUBER	
Inventor's signature:		Date:	
Residence: (City & State/Country):	Middleton, WI 53562	Citizenship:	US
Post Office Address:	8556 Stonebrook Circle Middleton, WI 53562		

<b>Full Name of Additional Joint Inventor (if any)</b>		Anne Mae GAFFNEY	
Inventor's signature:		Date:	
Residence: (City & State/Country):	West Chester, PA 19380	Citizenship:	US
Post Office Address:	805 Copeland School Road, West Chester, PA 19380		

<b>Full Name of Additional Joint Inventor (if any):</b>		Jungho JAE	
Inventor's signature:		Date:	11.05.15
Residence: (City & State/Country):	Amherst, MA 01002	Citizenship:	KR
Post Office Address:	1001 North Pleasant Street, Crestview Apt. 24A, Amherst, MA 01002.		

<b>Full Name of Additional Joint Inventor (if any)</b>		Yu-Ting CHENG	
Inventor's signature:		Date:	
Residence: (City & State/Country):	Nanuet, NY 10954	Citizenship:	TW
Post Office Address:	Normandy Village 38, Apt 4 Nanuet, NY 10954		