

**PATENT ASSIGNMENT**

Electronic Version v1.1  
 Stylesheet Version v1.1

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
Jaron C. Hansen	07/06/2010
Lee D. Hansen	07/06/2010
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	Brigham Young University
<b>Street Address:</b>	3760 HBLL
<b>Internal Address:</b>	Brigham Young University
<b>City:</b>	Provo
<b>State/Country:</b>	UTAH
<b>Postal Code:</b>	84602-6884
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	12863439
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(636)748-3242
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>	
<b>Phone:</b>	8013102825
<b>Email:</b>	jacobong@gmail.com
<b>Correspondent Name:</b>	Jacob Cheung-Ka Ong
<b>Address Line 1:</b>	729 w. Rolling Sage Way
<b>Address Line 4:</b>	Saratoga Springs, UTAH 84045
<b>NAME OF SUBMITTER:</b>	Jacob Ong
<b>Total Attachments: 4</b> source=hansen_assignment_1#page1.tif source=h2#page1.tif source=h3#page1.tif source=h4#page1.tif	

OP \$40.00 12863439

### RECORDATION FORM COVER SHEET PATENTS ONLY

To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below.

**1. Name of conveying party(ies)**  
Jaron C. Hansen & Lee D. Hansen  
Additional name(s) of conveying party(ies) attached?  Yes  No

**2. Name and address of receiving party(ies)**  
Name: Brigham Young University  
Internal Address: 3760 HALL  
Brigham Young University  
Street Address: 3760 HALL  
BYU  
City: Provo  
State: UT  
Country: US Zip: 84602-6844  
Additional name(s) & address(es) attached?  Yes  No

**3. Nature of conveyance/Execution Date(s):**  
Execution Date(s) 6 July 2010  
 Assignment  Merger  
 Security Agreement  Change of Name  
 Joint Research Agreement  
 Government Interest Assignment  
 Executive Order 9424, Confirmatory License  
 Other \_\_\_\_\_

**4. Application or patent number(s):**  
A. Patent Application No.(s)  
12/863439  
Additional numbers attached?  Yes  No

This document is being filed together with a new application.  
B. Patent No.(s)  
\_\_\_\_\_

**5. Name and address to whom correspondence concerning document should be mailed:**  
Name: Jacob Ong  
Internal Address: \_\_\_\_\_  
Street Address: 534 S. 810 W. #201  
City: Pleasant Grove  
State: UT Zip: 84062  
Phone Number: 801 310 2825  
Fax Number: 800 609 9549  
Email Address: \_\_\_\_\_

**6. Total number of applications and patents involved:** 1  
**7. Total fee (37 CFR 1.21(h) & 3.41)** \$40.00  
 Authorized to be charged to deposit account  
 Enclosed  
 None required (government interest not affecting title)

**8. Payment Information**  
See Fee Form & Credit Card Form  
Deposit Account Number \_\_\_\_\_  
Authorized User Name \_\_\_\_\_

**9. Signature:** \_\_\_\_\_ /Jacob Ong/ \_\_\_\_\_ 6 July 2010  
Signature Date  
Name of Person Signing: Jacob Ong Total number of pages including cover sheet, attachments, and documents: 3

Documents to be recorded (including cover sheet) should be faxed to (571) 273-0140, or mailed to:  
Mail Stop Assignment Recordation Services, Director of the USPTO, P.O.Box 1450, Alexandria, V.A. 22313-1450

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**STATEMENT UNDER 37 CFR 3.73(b)**Applicant/Patent Owner: Jaron C. Hansen and Lee D. HansenApplication No./Patent No.: NAFiled/Issue Date: 6 July 2010

Titled:

Method for Pretreatment of Cellulosic and Lignocellulosic Materials for Conversion into BioenergyBrigham Young University, a University

(Name of Assignee)

(Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

states that it is:

1.  the assignee of the entire right, title, and interest in;
2.  an assignee of less than the entire right, title, and interest in  
(The extent (by percentage) of its ownership interest is \_\_\_\_\_ %); or
3.  the assignee of an undivided interest in the entirety of (a complete assignment from one of the joint inventors was made)

the patent application/patent identified above, by virtue of either:

- A.  An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office at Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy therefore is attached.

OR

- B.  A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as follows:

1. From: \_\_\_\_\_ To: \_\_\_\_\_

The document was recorded in the United States Patent and Trademark Office at

Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.

2. From: \_\_\_\_\_ To: \_\_\_\_\_

The document was recorded in the United States Patent and Trademark Office at

Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.

3. From: \_\_\_\_\_ To: \_\_\_\_\_

The document was recorded in the United States Patent and Trademark Office at

Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.

 Additional documents in the chain of title are listed on a supplemental sheet(s).

- As required by 37 CFR 3.73(b)(1)(i), the documentary evidence of the chain of title from the original owner to the assignee was, or concurrently is being, submitted for recordation pursuant to 37 CFR 3.11.

[NOTE: A separate copy (i.e., a true copy of the original assignment document(s)) must be submitted to Assignment Division in accordance with 37 CFR Part 3, to record the assignment in the records of the USPTO. See MPEP 302.08]

The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.

Signature

Date

Printed or Typed Name

Title

This collection of information is required by 37 CFR 3.73(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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**PATENT****REEL: 026711 FRAME: 0960**

**ASSIGNMENT OF PATENT APPLICATION**

Whereas, Dr. Jaron C. Hansen of Springville, UT and Dr. Lee D. Hansen of Saratoga Springs, UT, hereafter referred to as "Applicants", have invented certain new and useful improvements for pretreatment of cellulosic and lignocellulosic materials for conversion to bioenergy; hereafter referred to as "Invention",

for which an application for a United States Nonprovisional Utility Patent was filed on 6 July 2010, accompanied this Assignment of Patent Application, and was entitled Method for Pretreatment of Cellulosic and Lignocellulosic Materials for Conversion into Bioenergy, and

whereas, Brigham Young University of Provo Utah, hereafter referred to as "Assignee", whose mailing address is 3760 HBLL, Brigham Young University, Provo, UT 84602-6844, is desirous of acquiring the entire right, title, and interest in said patent application and in any patent or continuation of a patent that may be granted;

now, therefore in accordance with our Employment Agreements that we have previously entered into with Assignee, and in consideration of our further employment with Brigham Young University, as well as in full consideration of the financial and non-financial support from Assignee that aided us in inventing said Invention; we, the Applicants, by our signatures and presents do sell, assign, and transfer unto said Assignee the full and exclusive right to the said Invention in the United States and in all the territories and nations of the world and the entire rights, title, and interest in and to any and all Patents which may be granted therefore in the United States or a nation of the world. We, the undersigned, to hereby authorize and request the Director of the United States Patent and Trademark Office to issue said United States patent to said Assignee, of the entire, right, title, and interest in and to the same, for its sole use and behoof; and for the use and behoof of its legal representatives, to the full end of the term for which said Patent may be granted, as fully and entirely as the same would have been held by us if this assignment and sale had not been made.

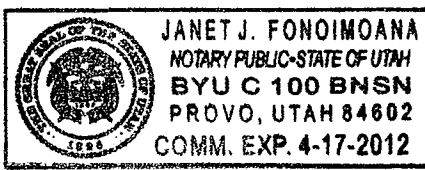
[Signature] 6 July, 2010  
Signature of Jaron C. Hansen/Date

[Signature] 6 July 2010  
Signature of Lee D. Hansen/Date

\*\*\*\*\*

Executed this 6<sup>th</sup> day of July, 2010; at Provo, Utah

Seal



[Signature]  
Signature

Janet J. Fonoimoana  
Printed Name/Registration No., if Applicable

State of Utah  
County of Utah

Before me personally appeared said Jaron C. Hansen and Lee D. Hansen and acknowledge the foregoing instrument to their free act and deed this 6<sup>th</sup> day of July, 2010.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

**POWER OF ATTORNEY  
OR  
REVOCAION OF POWER OF ATTORNEY  
WITH A NEW POWER OF ATTORNEY  
AND  
CHANGE OF CORRESPONDENCE ADDRESS**

Application Number	
Filing Date	6 July 2010
First Named Inventor	Jaron C. Hansen
Title	Method for Pretreatment of Cellulosic and Lignocellulosic
Art Unit	
Examiner Name	
Attorney Docket Number	HANSEN-07-2010

I hereby revoke all previous powers of attorney given in the above-identified application.

A Power of Attorney is submitted herewith.

OR

I hereby appoint Practitioner(s) associated with the following Customer Number as my/our attorney(s) or agent(s) to prosecute the application identified above, and to transact all business in the United States Patent and Trademark Office connected therewith:

95224

OR

I hereby appoint Practitioner(s) named below as my/our attorney(s) or agent(s) to prosecute the application identified above, and to transact all business in the United States Patent and Trademark Office connected therewith:

Practitioner(s) Name	Registration Number

Please recognize or change the correspondence address for the above-identified application to:

The address associated with the above-mentioned Customer Number.

OR

The address associated with Customer Number:

OR

Firm or Individual Name

Address

City

State

Zip

Country

Telephone

Email

I am the:

Applicant/Inventor.

OR

Assignee of record of the entire interest. See 37 CFR 3.71. Statement under 37 CFR 3.73(b) (Form PTO/SB/96) submitted herewith or filed on \_\_\_\_\_.

**SIGNATURE of Applicant or Assignee of Record**

Signature	<i>Michael Alder</i>	Date	July 6, 2010
Name	Michael Alder	Telephone	801 422 6266
Title and Company	Director, Tech Transfer Office, Brigham Young University		

**NOTE:** Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required, see below\*.

\*Total of 1 forms are submitted.

This collection of information is required by 37 CFR 1.31, 1.32 and 1.33. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 3 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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**PATENT**