

PATENT ASSIGNMENT

Electronic Version v1.1
 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
Andreas Homung	01/14/2011
Andreas Apfelbacher	01/14/2011
RECEIVING PARTY DATA	
Name:	Aston University
Street Address:	Aston Triangle
City:	Birmingham
State/Country:	UNITED KINGDOM
Postal Code:	B4 7ET
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	12992654
CORRESPONDENCE DATA	
Fax Number:	(216)241-0816
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>	
Phone:	2166228200
Email:	ipdocket@calfee.com
Correspondent Name:	John E. Miller
Address Line 1:	800 Superior Avenue
Address Line 2:	1400 KeyBank Center
Address Line 4:	Cleveland, OHIO 44114
ATTORNEY DOCKET NUMBER:	27154/04007
NAME OF SUBMITTER:	Debra L. Hale

CH \$40.00 12992654

Total Attachments: 3
 source=01058300#page1.tif
 source=01058300#page2.tif

501455254

**PATENT
 REEL: 025893 FRAME: 0319**

ASSIGNMENT

For good and valuable consideration received from the hereinafter named assignee, receipt of which is hereby acknowledged, we, the undersigned, Andreas Hornung, residing at Auf den Eiswiesen 7, D-76185 Karlsruhe, Germany, and Andreas Apfelbacher, residing at Rumpelmuehle 1, D-92271 Freilung, Germany, hereby assign to Aston University, Aston Triangle, Birmingham, B4 7ET, United Kingdom; its successors and assigns, the entire right, title and interest, so far as concerns the United States and the Territories and Possessions thereof and all foreign countries, in and to the inventions in

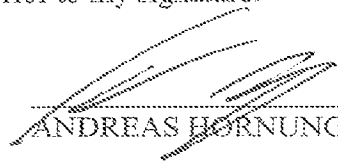
THERMAL TREATMENT OF BIOMASS

set forth in the application for United States Letters Patent, Application No. 12/992,654, filed November 15, 2010 (Attorney Docket No. 27154/04007), said application for United States Letters Patent, and any and all other applications for Letters Patent on said inventions in the United States and in all countries foreign to the United States, including but not limited to all provisional, non-provisional, national, divisional, renewal, substitute, continuation, PCT and Convention applications based in whole or in part upon said inventions or upon said applications, and any and all Letters Patents and reissues and extension of Letters Patent granted for said inventions or upon said applications, and every priority right that is or may be predicated upon or arise from said inventions, said applications and said Letters Patent; said assignee being hereby authorized to file patent applications in any or all countries on any or all said inventions in the name of the undersigned or in the name of said assignee or otherwise as said assignee may deem advisable, under the International Convention or otherwise; the Commissioner of Patents of the United States of America and the empowered officials of all other governments being hereby authorized to issue or transfer all said Letters Patent to said assignee in accordance herewith; this assignment being under covenant, not only that full power to make the same is had by the undersigned, but also that such assigned right is not encumbered by any grant, license, or other right heretofore given, and that the undersigned will do all acts reasonably serving to assure that the said inventions, patent applications and Letters Patent shall be held and enjoyed by said assignee as fully and entirely as the same could have been held and enjoyed by the undersigned if this assignment had not been made, and particularly to execute and deliver to said assignee all lawful documents including petitions, specifications, oaths, assignments, invention disclaimers,

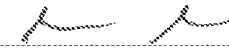
lawful affidavits in form and in substance which may be requested by said assignee, to furnish said assignee with all facts relating to said inventions or the history thereof and any and all documents, photographs, models, samples or other physical exhibits which may be useful for establishing the facts of conception, disclosure and reduction to practice of said inventions, and the testify in any proceedings relating to said inventions, patent applications and Letters Patent.

I hereby instruct Aston University's attorneys to enter the corresponding application number and filing date of the afore-referenced patent application prior to recording this assignment, to have the same effect as if entered prior to my signature.

Date: 14.1.11



ANDREAS HORNUNG

Witness 1:


Signature
Name: Apfelbacher

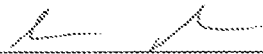
14.07.2011
Date

Witness 2:

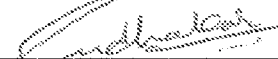

Signature
Name: Sudhakar. Sagi

14.01.2011
Date

Date: 14.01.2011



ANDREAS APFELBACHER

Witness 1:


Signature Sudharak Sagi
Name: 14.01.2011

14.01.2011
Date

Witness 2:


Signature Andreas Hornung
Name: _____

14.1.11
Date

* * * * *