

## PATENT ASSIGNMENT

Electronic Version v1.1

Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT						
NATURE OF CONVEYANCE:	ASSIGNMENT						
CONVEYING PARTY DATA							
<table border="1"><thead><tr><th>Name</th><th>Execution Date</th></tr></thead><tbody><tr><td>Mark D. Holtzapple</td><td>12/18/2008</td></tr><tr><td>Cesar B. Granda</td><td>12/19/2008</td></tr></tbody></table>	Name	Execution Date	Mark D. Holtzapple	12/18/2008	Cesar B. Granda	12/19/2008	
Name	Execution Date						
Mark D. Holtzapple	12/18/2008						
Cesar B. Granda	12/19/2008						
RECEIVING PARTY DATA							
Name:	The Texas A&M University System						
Street Address:	3369 TAMU						
City:	College Station						
State/Country:	TEXAS						
Postal Code:	77843-3369						
PROPERTY NUMBERS Total: 1							
<table border="1"><thead><tr><th>Property Type</th><th>Number</th></tr></thead><tbody><tr><td>Application Number:</td><td>12262282</td></tr></tbody></table>	Property Type	Number	Application Number:	12262282			
Property Type	Number						
Application Number:	12262282						
CORRESPONDENCE DATA							
Fax Number:	(214)661-4559						
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>							
Phone:	214.953.6559						
Email:	linda.henretta@bakerbotts.com						
Correspondent Name:	BAKER BOTTS L.L.P.						
Address Line 1:	2001 ROSS AVENUE						
Address Line 2:	SUITE 600						
Address Line 4:	DALLAS, TEXAS 75201-2980						
ATTORNEY DOCKET NUMBER:	017575.1260						
NAME OF SUBMITTER:	Linda Henretta						
Total Attachments: 3 source=0175751260assign#page1.tif source=0175751260assign#page2.tif							

CH 12262282 \$40.00

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PATENT  
REEL: 022134 FRAME: 0044



ASSIGNMENT

WHEREAS, I, the undersigned joint inventor of residence as listed, having invented certain new and useful improvements as below entitled, for which application for United States Letters Patent is made, said application having been executed on the date set forth below; and

WHEREAS, The Texas A&M University System (hereinafter referred to as "Assignee"), a non-profit organization and an agency of the State of Texas, with an address of 3369 TAMU, College Station, Texas 77843-3369, desires to acquire my entire right, title and interest in and to the invention, and in and to the said application and any Letters Patent that may issue thereon;

NOW, THEREFORE, for and in consideration of One Dollar (\$1.00) and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, I assign to Assignee, all right, title and interest in and to said invention and in and to said application and all patents which may be granted therefor, and all divisions, reissues, continuations, continuations-in-part and extensions thereof; and I hereby authorize and request the Commissioner of Patents and Trademarks to issue all patents for said invention, or patents resulting therefrom, insofar as my interest is concerned, to Assignee.

I also assign to Assignee, all right, title and interest to the invention disclosed in said application throughout the world, including the right to file applications and obtain patents, utility models, industrial models and designs for said invention in its own name throughout the world including all rights to publish cautionary notices reserving ownership of said invention and all rights to register said invention in appropriate registries; and I further agree to execute any and all powers of attorney, applications, assignments, declarations, affidavits, and any other papers in connection therewith necessary to perfect such right, title and interest in Assignee.

I will communicate to Assignee any facts known to me respecting any improvements; and, at the expense of Assignee, I will testify in any legal proceedings, sign all lawful papers, execute all divisional, continuation, continuation-in-part, reissue and substitute applications, make lawful oaths and declarations, and generally do everything possible to vest title in Assignee and to aid Assignee to obtain and enforce proper protection for said invention in all countries.

This Assignment shall be binding on the parties' successors, assigns and legal representatives.

ATTORNEY DOCKET NO.  
017575.1260 (TAMUS 2559)

ASSIGNMENT

Page 2 of 3

Title of Invention:

SYSTEM AND METHOD FOR  
PRETREATING BIOMASS

Signature of Joint Inventor:  
Inventor's Name:

  
Mart T. Holtzapple

Residence (City, County, State)

College Station, Brazos County, Texas 77840

Address:

1805 Southwood Drive  
College Station, Brazos County, Texas 77840

Date Assignment executed

18 DEC 08

Date Application (Declaration) executed

18 DEC 08

DAL01:1033258.1

PATENT  
REEL: 022134 FRAME: 0047

Title of Invention:

SYSTEM AND METHOD FOR  
PRETREATING BIOMASS

Signature of Joint Inventor:  
Inventor's Name:

  
Cesar B. Granda

Residence (City, County, State)

College Station, Brazos County, Texas 77845

Post Office Address

603 Aster Drive  
College Station, Brazos County, Texas 77845

Date Assignment executed

19 DEC 2008

Date Application (Declaration) executed

19 DEC 2008