

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>John P. Reardon</td> <td>01/19/2011</td> </tr> <tr> <td>Thomas J. Paskach</td> <td>01/13/2011</td> </tr> <tr> <td>Jerod L. Smeenk</td> <td>01/13/2011</td> </tr> <tr> <td>Paul Evans</td> <td>02/14/2011</td> </tr> </tbody> </table>		Name	Execution Date	John P. Reardon	01/19/2011	Thomas J. Paskach	01/13/2011	Jerod L. Smeenk	01/13/2011	Paul Evans	02/14/2011
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John P. Reardon	01/19/2011										
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Jerod L. Smeenk	01/13/2011										
Paul Evans	02/14/2011										
RECEIVING PARTY DATA											
Name:	Frontline BioEnergy, LLC.										
Street Address:	1421 South Bell Avenue, Suite 105										
City:	Ames										
State/Country:	IOWA										
Postal Code:	50010										
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>13107726</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13107726						
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CORRESPONDENCE DATA											
Fax Number:	5152830231										
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>											
Phone:	5152422400										
Email:	ip@brownwinick.com										
Correspondent Name:	Camille L. Urban										
Address Line 1:	666 Grand Avenue, Suite 2000										
Address Line 4:	Des Moines, IOWA 50309										
ATTORNEY DOCKET NUMBER:	16649/0017										
NAME OF SUBMITTER:	Camille L. Urban										
<p>Total Attachments: 4</p> <p>source=FrontlineAssignment010413#page1.tif</p> <p>source=FrontlineAssignment010413#page2.tif</p> <p>source=FrontlineAssignment010413#page3.tif</p> <p>source=FrontlineAssignment010413#page4.tif</p>											

CH \$40.00 13107726

ASSIGNMENT

WHEREAS, We, **John P. Reardon**, a citizen of the United States, residing at 6101 Little Piney Dr., Lake St Louis, Missouri 63367 in the County of Jasper, and the State of Missouri, **Thomas J. Paskach**, a citizen of the United States, residing at 420 Hilltop Road, Ames, Iowa 50014, in the County of Story, and the State of Iowa, **Jerod L. Smeenk**, a citizen of the United States, residing at 536 Forest Glen, Ames, Iowa 50014, in the County of Story, and the State of Iowa, and **Paul Evans**, a citizen of the United States, residing at 1715 S. Rex Ave #48, Joplin, Missouri 64801 in the County of Jasper, and the State of Missouri, have made an invention entitled **APPARATUS AND METHOD FOR OPTIMIZED ACID GAS AND TOXIC METAL CONTROL IN GASIFIER PRODUCED GASES** and have filed a provisional application for Letters Patent of the United States of America based thereon;

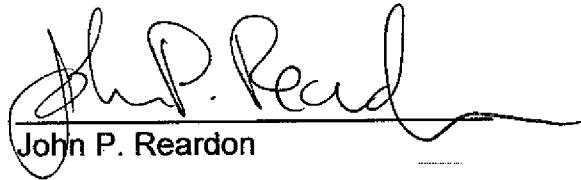
NOW, THEREFORE, for good and valuable consideration, receipt of which is acknowledged, each of the undersigned has agreed to assign and transfer and do hereby assign and transfer (other than those rights specifically described in paragraph 27 of the Redemption Agreement, as defined below) unto **Frontline BioEnergy, LLC**, a limited liability company of the State of Iowa, having its principal office at 1421 South Bell Avenue, Suite 105, Ames, Iowa 50010, its successors and assigns, all of the undersigned's entire right, title and interest in and to the said invention and application entitled **Apparatus and Method for Optimized Acid Gas and Toxic Metal Control in Gasifier Produced Gases**, having US Application No. 61/395,682 and filing date 5/14/2010, and in and to any nonprovisional, division, continuation or continuation-in-part, of said application, and in and to any and all improvements in the said invention made by us or made jointly with others (provided any such improvement is made during our employment by said Company or within one year thereafter), and in and to any and all Letters Patent and reissues and extensions thereof, of the United States of America and countries foreign thereto (including the right to apply for Letters Patent in foreign countries in its own name and to claim any priority rights for such foreign applications to which such applications are entitled under international conventions, treaties, or otherwise), which have been or may be granted thereon or on any divisional, continuation (in whole or in part), renewal, reissue or other or further application based in whole or in part upon the said invention or improvements thereof, to be held and enjoyed as fully and exclusively as they would have been by us had this assignment and transfer not been made, all such rights subject to the applicable limitations set forth in paragraph 27 of that certain Redemption Agreement by and among Frontline BioEnergy, LLC, J. Reardon Holdings, Inc. and John P. Reardon (the "Redemption Agreement");

We do further agree for ourselves and for our heirs, executors and

administrators, to execute and deliver without further consideration any further applications, assignments and documents, and to perform such other acts as we lawfully may, that may be deemed necessary by the said **Frontline BioEnergy, LLC**, its successors, assigns and nominees, acting in a commercially reasonable manner, at Frontline BioEnergy LLC's sole expense, fully to secure its interest as aforesaid and to obtain or maintain Letters Patent in any and all countries;

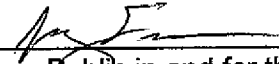
As we do hereby authorize and request the Commissioner of Patents to issue any and all Letters Patent which may be granted upon any of the said applications, to the said **Frontline BioEnergy, LLC**, as the assignee of the entire interest thereon.

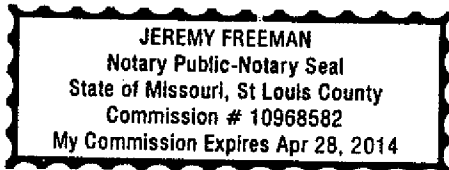
IN WITNESS WHEREOF, we have hereunto assigned our names on the day and year set forth below.


John P. Reardon

STATE OF MISSOURI)
) ss:
COUNTY OF St. Louis)

On this 19 day of January, 2011, before me personally appeared **John P. Reardon** known to me, and known by me to be the person described in and who executed the foregoing instrument, and acknowledged that he executed the same, as his free act and deed, on the day and year aforesaid.


Notary Public in and for the
State of Missouri, County of St. Louis



Thomas J. Paskach

STATE OF IOWA)
) ss:
COUNTY OF STORY)

On this _____ day of January, 2011, before me personally appeared **Thomas J. Paskach** known to me, and known by me to be the person described in and who executed the foregoing instrument, and acknowledged that he executed the same, as his free act and deed, on the day and year aforesaid.

Notary Public in and for the
State of Iowa, County of Story

(signatures continue on next page)

administrators, to execute and deliver without further consideration any further applications, assignments and documents, and to perform such other acts as we lawfully may, that may be deemed necessary by the said **Frontline BioEnergy, LLC**, its successors, assigns and nominees, acting in a commercially reasonable manner, at Frontline BioEnergy LLC's sole expense, fully to secure its interest as aforesaid and to obtain or maintain Letters Patent in any and all countries;

As we do hereby authorize and request the Commissioner of Patents to issue any and all Letters Patent which may be granted upon any of the said applications, to the said **Frontline BioEnergy, LLC**, as the assignee of the entire interest thereon.


IN WITNESS WHEREOF, we have hereunto assigned our names on the day and year set forth below.

John P. Reardon

STATE OF MISSOURI)
) ss:
COUNTY OF _____)

On this _____ day of January, 2011, before me personally appeared **John P. Reardon** known to me, and known by me to be the person described in and who executed the foregoing instrument, and acknowledged that he executed the same, as his free act and deed, on the day and year aforesaid.

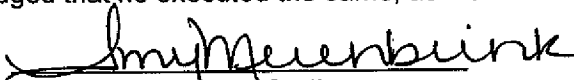
Notary Public in and for the
State of Missouri, County of _____



Thomas J. Paskach

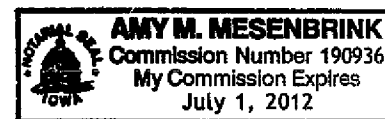
STATE OF IOWA)
) ss:
COUNTY OF STORY)

On this 13 day of January, 2011, before me personally appeared **Thomas J. Paskach** known to me, and known by me to be the person described in and who executed the foregoing instrument, and acknowledged that he executed the same, as his free act and deed, on the day and year aforesaid.



Notary Public in and for the
State of Iowa, County of Story

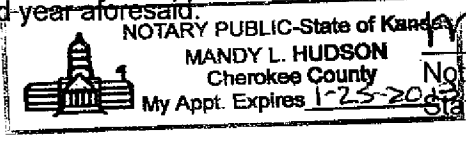
(signatures continue on next page)



Paul Evans
Paul Evans

STATE OF ~~MISSOURI~~ Kansas)
) ss:
COUNTY OF Cherokee)

On this 14th day of Feb. ~~January~~, 2011, before me personally appeared **Paul Evans** known to me, and known by me to be the person described in and who executed the foregoing instrument, and acknowledged that he executed the same, as his free act and deed, on the day and year aforesaid.

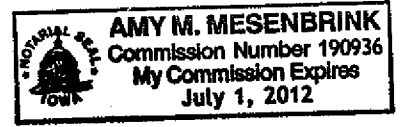
 Mandy L. Hudson
NOTARY PUBLIC - State of ~~Kansas~~ Kansas
MANDY L. HUDSON
Cherokee County
My Appt. Expires 1-25-2012
Notary Public in and for the
State of ~~Missouri~~ Kansas, County of Cherokee

Jerod L. Smeenk
Jerod L. Smeenk

STATE OF IOWA)
) ss:
COUNTY OF STORY)

On this 13th day of January, 2011, before me personally appeared **Jerod L. Smeenk** known to me, and known by me to be the person described in and who executed the foregoing instrument, and acknowledged that he executed the same, as his free act and deed, on the day and year aforesaid.

Amy M. Meisenbrink
Notary Public in and for the
State of Iowa, County of Story

 **AMY M. MEISENBRINK**
Commission Number 190936
My Commission Expires
July 1, 2012