

PATENT ASSIGNMENT

Electronic Version v1.1
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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>Theodora Retsina</td> <td>01/29/2010</td> </tr> <tr> <td>Vesa Pylkkanen</td> <td>01/29/2010</td> </tr> <tr> <td>Kimberly Nelson</td> <td>01/29/2010</td> </tr> </tbody> </table>		Name	Execution Date	Theodora Retsina	01/29/2010	Vesa Pylkkanen	01/29/2010	Kimberly Nelson	01/29/2010				
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<table border="1"> <tr> <td>Name:</td> <td>API Intellectual Property Holdings, LLC</td> </tr> <tr> <td>Street Address:</td> <td>750 Piedmont Ave. NE</td> </tr> <tr> <td>Internal Address:</td> <td>Attn: Ryan O'Connor</td> </tr> <tr> <td>City:</td> <td>Atlanta</td> </tr> <tr> <td>State/Country:</td> <td>GEORGIA</td> </tr> <tr> <td>Postal Code:</td> <td>30308</td> </tr> </table>		Name:	API Intellectual Property Holdings, LLC	Street Address:	750 Piedmont Ave. NE	Internal Address:	Attn: Ryan O'Connor	City:	Atlanta	State/Country:	GEORGIA	Postal Code:	30308
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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>13471662</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13471662								
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CORRESPONDENCE DATA													
<p>Fax Number: (404)876-6704</p> <p>Phone: 404-872-8807</p> <p>Email: roconnor@americanprocess.com</p> <p><i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i></p> <p>Correspondent Name: Ryan P. O'Connor, Ph.D.</p> <p>Address Line 1: 750 Piedmont Ave. NE</p> <p>Address Line 2: Attn: IP Dept.</p> <p>Address Line 4: Atlanta, GEORGIA 30308</p>													
ATTORNEY DOCKET NUMBER:	0020-CON												
NAME OF SUBMITTER:	Ryan P. O'Connor												

OP \$40.00 13471662

Total Attachments: 4

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PATENT

REEL: 028278 FRAME: 0368

PATENT ASSIGNMENT TO CORPORATION WORLDWIDE

WHEREAS,

1. Theodora Retsina residing at 836 Penn Avenue, Atlanta, Georgia 30308 and a citizen of United States;
2. Vesa Pylkkanen residing at 1253 Wildcliff Circle, Atlanta, Georgia 30329 and a citizen of Finland;
3. Kimberly Nelson residing at 213 Locust Street NE, Atlanta, Georgia 30317 and a citizen of United States

hereafter referred to as "THE UNDERSIGNED", have made an invention entitled PROCESS FOR OBTAINING BIOCHEMICALS IN A ZERO-LIQUID DISCHARGE PLANT filed on 28 May 2009 serial number 12/474267;


AND, WHEREAS, American Process, Inc., hereafter referred to as ASSIGNEE, a corporation organized under the laws of Georgia and whose place of business and business address is 750 Piedmont Avenue NE, Atlanta, Georgia 30308, is desirous of acquiring the entire right, title and interest in the same;

NOW, THEREFORE in consideration of the sum of One Dollar, the receipt whereof is acknowledged, and other good and valuable consideration, THE UNDERSIGNED hereby sell, assign and transfer unto ASSIGNEE the full and exclusive right to the said invention in the United States and the entire right, title and interest in and to all divisionals, continuations, continuations in part, reissues, reexaminations or renewals thereof, all Letters Patent which may be granted therefrom, and all reissues or extension of such patents, and in and to any and all applications which have been or shall be filed in any foreign countries for Letters Patent on the said invention including an assignment of all rights under the provision of international conventions and all Letters Patent of foreign countries which may be granted therefrom; the UNDERSIGNED hereby authorize the Commissioner of Patents to issue any and all United States Letters Patent for the aforesaid invention to ASSIGNEE of the entire right, title and interest in and to the same, for the use of the ASSIGNEE, its successors and assigns.

THE UNDERSIGNED, hereby agree that THE UNDERSIGNED, their executors and legal representatives will make, execute and deliver (without charge but at the expense of the ASSIGNEE) any and all other instruments in writing including any and all further application papers, affidavits, assignments and other documents, and will communicate to said ASSIGNEE, its successors and representatives all facts Known to THE UNDERSIGNED relating to said invention and the history thereof and will testify in all legal proceedings and generally do all things which may be necessary or desirable to vest the ASSIGNEE, its successors or assigns the entire right, title and interest in and to the said invention, applications, Letters Patent, rights, titles and benefits, privileges and advantages hereby sold, assigned and conveyed, or intended so to be.

THE UNDERSIGNED represent and agree with said Assignee its successors and assignees, that no assignment grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been or will be made to others by THE UNDERSIGNED, and that full right to convey the same as herein expressed is possessed by THE UNDERSIGNED.

IN TESTIMONY WHEREOF, THE UNDERSIGNED have hereunto set their hand on the dates indicated below.


 Theodora Retsina


 Date


 Vesa Pylkkanen


 Date


 Kimberly Nelson

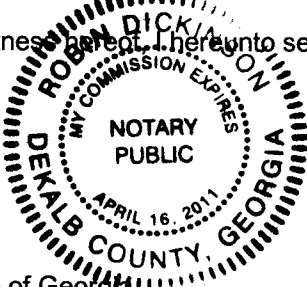

 Date

No Legalization Required

State of Georgia
County of DeKalb

On this, the 29th day of January, 2010, before me a notary public, the undersigned officer, personally appeared Theodora Retsina, known to me (or satisfactorily proven) to be the person whose name is subscribed to the within instrument, and acknowledged that he executed the same for the purposes therein contained.

In witness hereof, I hereunto set my hand and official seal.

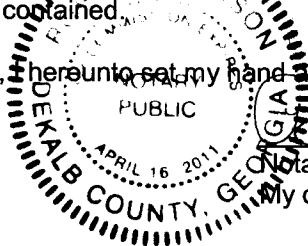


[Signature]
Notary Public
My commission expires 4/16/11

State of Georgia
County of DeKalb

On this, the _____ day of _____, 20____, before me a notary public, the undersigned officer, personally appeared Vesa Pytkkanen, known to me (or satisfactorily proven) to be the person whose name is subscribed to the within instrument, and acknowledged that he executed the same for the purposes therein contained.

In witness hereof, I hereunto set my hand and official seal.

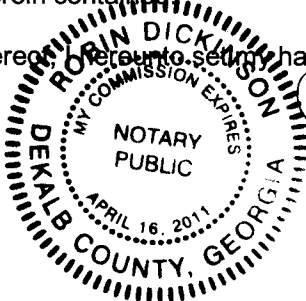


[Signature]
Notary Public
My commission expires 4/16/11

State of Georgia
County of DeKalb

On this, the _____ day of _____, 20____, before me a notary public, the undersigned officer, personally appeared Kimberly Nelson, known to me (or satisfactorily proven) to be the person whose name is subscribed to the within instrument, and acknowledged that he executed the same for the purposes therein contained.

In witness hereof, I hereunto set my hand and official seal.



[Signature]
Notary Public
My commission expires 4/16/11

INTELLECTUAL PROPERTY ASSIGNMENT

WHEREAS, American Process, Inc., a corporation organized under the laws of Alabama and whose place of business and business address is 750 Piedmont Avenue NE, Atlanta, Georgia 30308 (hereafter referred to as "Assignor") has filed the patent applications (hereinafter "Patent Applications"), listed on **Appendix A** attached hereto; and

WHEREAS, Assignor has additional know how and trade secrets in the field of biofuel refining, related and unrelated to these applications which are not currently the subject matter of patent applications (hereinafter "Know How"); and

WHEREAS, API Intellectual Property Holdings, LLC, a limited liability company organized under the laws of Georgia (hereinafter referred to as "Assignee") and whose place of business and business address is 750 Piedmont Avenue NE, Atlanta, Georgia 30308; is desirous of acquiring the entire right, title and interest in the Patent Applications, the Know How, and all other intellectual property associated therewith (collectively, the "Intellectual Property").

NOW, THEREFORE in consideration of the sum of One Dollar (\$1.00) and other good and valuable consideration, the receipt whereof is acknowledged, by its execution of this document, Assignor hereby sells, assigns and transfers unto Assignee the full and exclusive right to the Intellectual Property, wherever located, including, but not limited to all entire right, title and interest in and to all provisionals, continuations, continuations in part, reissues, reexaminations or renewals thereof, all Letters Patent which may be granted therefrom, and all reissues or extension of such patents, and in and to any and all applications which have been or shall be filed in any foreign countries for Letters Patent associated therewith including an assignment of all rights under the provision of international conventions and all Letters Patent of foreign countries which may be granted therefrom; the Assignee hereby authorize the Commissioner of Patents to issue any and all United States Letters Patent associated therewith to Assignee of the entire right, title and interest in and to the same, for the use of the Assignee, its successors and assigns.

Assignor hereby agrees that it, its successors and assigns and legal representatives will make, execute and deliver any and all other instruments in writing including any and all further application papers, affidavits, assignments and other documents, and will communicate to said Assignee, its successors, assigns, and representatives all facts known to the Assignor relating to the Intellectual Property and the history thereof and will testify in all legal proceedings and generally do all things which may be necessary or desirable to vest in Assignee, its successors or assigns the entire right, title and interest in and to the Intellectual Property, including, without limitation, the Patent Applications, Letters Patent, rights, titles and benefits, privileges and advantages hereby sold, assigned and conveyed, or intended so to be.

Assignor represents and agrees with said Assignee and its successors and assigns, that no assignment grant, mortgage, license or other agreement affecting the rights and property herein conveyed has heretofore been or hereafter will be made to others by Assignor, and that full right to convey the same as herein expressed is possessed by Assignor.

IN TESTIMONY WHEREOF, Assignor has hereunto set its hand on the date indicated below.

12/5/2010
Date

AMERICAN PROCESS, INC.


Signature

CEO Theodora Retsina
Typed or Printed Name

CEO
Title

APPENDIX A TO PATENT AND KNOW HOW AGREEMENT

TITLE	Filing Date	Provisional #	Deadline Date Filing Utility App	Utility Application #
Linear Optimization of a Continuous or Semi-Continuous Process	10/1/1999	60/157,367	10/1/2000	
Pre-Calculated Process Simulation System	3/26/1999	60/126,536	3/26/2000	
Energy Bench Marking	2/27/2002	60/360,045	2/27/2003	
PARIS Optimization Application	2/27/2002	60/360,046	2/27/2003	
Pinch on line	5/29/2002	60/383,719	5/29/2003	
Performance Indicator Benchmarking: a web-based performance benchmarking tool	10/24/2003	60/513,878	10/25/2004	10/904114
Linear Optimization of a Continuous or Semi-Continuous Process	11/6/2003	60/517,551	11/6/2004	10/904365
Corporate Order Allocation	11/17/2003	60/520,336	11/17/2004	10/904468
Energy Monitor	12/29/2003	60/532,456	12/29/2004	10/905290
SDM	7/12/2004	60/586,990	7/12/2005	
O-Pinch				
Smart Gym	4/28/2006	60/795,488	4/27/2007	
A Method for the Production of Fermentable Sugars and Cellulose from Lignocellulosic Material	4/28/2006	60/795,487	4/27/2007	11740923 / CIP 12250734
A Process for the Stepwise Treatment of Lignocellulosic Material to Produce Reactive Chemical Feedstocks				PCT/US07/13715
EUROPE A Process for the Stepwise Treatment of Lignocellulosic Material to Produce Reactive Chemical Feedstocks			12/11/2008	07795984.9
CANADA A Process for the Stepwise Treatment of Lignocellulosic Material to Produce Reactive Chemical Feedstocks			12/18/2008	2,659,015
Sulfonation and Hydrolysis of Sulfite Spent Liquors	6/12/2006	60/812,244	6/11/2007	PCT/US07/13715
Selective Hydrolysis of Lignocellulosic Materials	6/12/2006	60/812,245	6/11/2007	PCT/US07/13715
Separation of Lignin from Sulfite Spent Liquor	6/12/2006	60/812,246	6/11/2007	PCT/US07/13715
Process Integration of Alcohol Sulfite Mill	6/19/2006	60/814,560	6/18/2006	PCT/US07/13715
Vapor Compression Evaporation and Stripping of Biorefinery Streams Containing Sugar and Ethanol in Various Concentrations	7/5/2006	60/818,342	7/4/2007	PCT/US07/13715
Wash Cycle Loop in a Pulp Mill Biorefinery	12/22/2006	60/876,470	12/21/2007	PCT/US07/13715
Separation of High Purity Lignins from Hydrolyzate of Lignocellulosic Material	9/21/2007	60/974,170	9/19/2008	12234286
Process for Treatment of Hemicelluloses Extracted from Alkaline Pulping Process	9/21/2007	60/974,253	9/19/2008	12234402
Alcohol Sulfite Pulping with Alkaline Additive	10/3/2007	60/977,246	9/30/2008	12241188
A Method for Hydrolysis of Biomass in Pulping Spent Liquor	3/4/2008	61/064,397	3/3/2009	12397284
Vapor Phase Pulping with Alcohol and Sulfur Dioxide	3/24/2008	61/064,744	3/23/2009	12409357
Process for Obtaining Biochemicals in a Zero-Liquid Discharge Point	5/29/2008	61/057,019	5/28/2009	12474267
Simultaneous Fermentation and Distillation	5/4/2010	61/337,217	5/3/2011	
Process For Separating Pure Chemicals From Biomass Extract	5/5/2009	61/175,588	5/5/2010	PCT/US2010/033662
Pre-extraction from Power Plant Biomass	6/23/2009	61/219,764	6/22/2010	PCT/US2010/039481
Stepwise Enzymatic Hydrolysis Process for Pulp	6/23/2009	61/219,759	6/22/2010	PCT/US2010/039481
Alcohol Sulfite Biorefinery Process	10/9/2010	61/250,082	10/7/2010	PCT/US2010/051849
Integration of Evaporation and Ethanol Distillation	5/4/2010	61/337,210	5/3/2011	
Enzyme Recycle from Hydrolysis of Lignocellulosic Material		61/233,324	8/11/2010	12854869
High Temperature Fast Hydrolysis of Carbohydrate Extracted from Wood and Plant Biomass		61/250,052		ABANDONED
Process for Producing Alcohol and Other Bioproducts from Biomass Extracts in a Kraft Pulp Mill		61250050	10/7/2010	PCT/US2010/051759

PATENT

RECORDED: 05/29/2012

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