

## PATENT ASSIGNMENT

Electronic Version v1.1  
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SUBMISSION TYPE:	NEW ASSIGNMENT																		
NATURE OF CONVEYANCE:	SECURITY AGREEMENT																		
CONVEYING PARTY DATA																			
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>COALTEK, INC.</td> <td>05/25/2012</td> </tr> <tr> <td>COALTEK CALVERT CITY LLC</td> <td>05/25/2012</td> </tr> <tr> <td>COALTEK SALES, LLC</td> <td>05/25/2012</td> </tr> </tbody> </table>		Name	Execution Date	COALTEK, INC.	05/25/2012	COALTEK CALVERT CITY LLC	05/25/2012	COALTEK SALES, LLC	05/25/2012										
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COALTEK, INC.	05/25/2012																		
COALTEK CALVERT CITY LLC	05/25/2012																		
COALTEK SALES, LLC	05/25/2012																		
RECEIVING PARTY DATA																			
Name:	COMERICA BANK																		
Street Address:	39200 W. Six Mile Road																		
Internal Address:	M/C 7512																		
City:	Livonia																		
State/Country:	CALIFORNIA																		
Postal Code:	48152																		
PROPERTY NUMBERS Total: 8																			
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Patent Number:</td> <td>7901473</td> </tr> <tr> <td>PCT Number:</td> <td>US0441786</td> </tr> <tr> <td>Application Number:</td> <td>11695554</td> </tr> <tr> <td>PCT Number:</td> <td>US0765801</td> </tr> <tr> <td>Application Number:</td> <td>12247004</td> </tr> <tr> <td>Application Number:</td> <td>12435514</td> </tr> <tr> <td>PCT Number:</td> <td>US0942780</td> </tr> <tr> <td>Application Number:</td> <td>12186804</td> </tr> </tbody> </table>		Property Type	Number	Patent Number:	7901473	PCT Number:	US0441786	Application Number:	11695554	PCT Number:	US0765801	Application Number:	12247004	Application Number:	12435514	PCT Number:	US0942780	Application Number:	12186804
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Application Number:	12435514																		
PCT Number:	US0942780																		
Application Number:	12186804																		
CORRESPONDENCE DATA																			
Fax Number:	(858)550-6420																		
Phone:	858-550-6403																		
Email:	erin.obrien@cooley.com																		
Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent																			

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*via US Mail.*

Correspondent Name: Erin O'Brien  
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ATTORNEY DOCKET NUMBER:	036703-1409 COALTEK
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NAME OF SUBMITTER:	Erin O'Brien
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**Total Attachments: 7**

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## INTELLECTUAL PROPERTY SECURITY AGREEMENT

This Intellectual Property Security Agreement is entered into as of May 25, 2012 by and between COMERICA BANK ("Bank") and COALTEK, INC., a Delaware corporation, COALTEK CALVERT CITY LLC, a Delaware limited liability company, and COALTEK SALES, LLC, a Delaware limited liability company (collectively, "Grantors").

### RECITALS

Grantors and Bank are parties to that certain Loan and Security Agreement dated as of May 4, 2010, as amended from time to time including without limitation by that certain First Amendment to Loan and Security Agreement dated as of December 10, 2010, that certain Second Amendment to Loan and Security Agreement dated as of June 6, 2011, that certain Third Amendment to Loan and Security Agreement dated as of July 27, 2011, that certain Third Amendment to Loan and Security Agreement dated as of September 27, 2011, that certain Fourth Amendment and Forbearance to Loan and Security Agreement dated as of March 1, 2012 and that certain Fifth Amendment and Forbearance to Loan and Security Agreement dated as of March 26, 2012 (collectively, and as further amended, restated, modified or supplemented from time to time, the "Loan Agreement"). Grantors and Bank desire to amend the Loan Agreement in accordance with the terms of that certain Sixth Amendment and Forbearance to Loan and Security Agreement dated as of the date hereof (the "Amendment").

Bank has agreed to enter into the Amendment, provided, among other things, that each Grantor amends the Collateral and agrees to grant to Bank a security interest in certain Copyrights, Trademarks and Patents to secure the obligations of Grantors under the Loan Agreement.

**NOW, THEREFORE**, for good and valuable consideration, receipt of which is hereby acknowledged, and intending to be legally bound, as collateral security for the prompt and complete payment when due of its obligations under the Loan Agreement and all other agreements now existing or hereafter arising between Grantors and Bank, each Grantor hereby represents, warrants, covenants and agrees as follows:

### AGREEMENT

To secure its obligations under the Loan Agreement and under any other agreement now existing or hereafter arising between Grantor and Bank, Grantor grants and pledges to Bank a security interest in all of Grantor's right, title and interest in, to and under its Intellectual Property (including without limitation those Copyrights, Patents and Trademarks listed on Exhibits A, B and C hereto), and including without limitation all proceeds thereof (such as, by way of example but not by way of limitation, license royalties and proceeds of infringement suits), the right to sue for past, present and future infringements, all rights corresponding thereto throughout the world and all re-issues, divisions continuations, renewals, extensions and continuations-in-part thereof.

This security interest is granted in conjunction with the security interest granted to Bank under the Loan Agreement. This security interest is subject to and shall terminate pursuant to the provisions set forth in Section 10 of the Amendment. The rights and remedies of Bank with respect to the security interest granted hereby are in addition to those set forth in the Loan Agreement and the other Loan Documents, and those which are now or hereafter available to Bank as a matter of law or equity. Each right, power and remedy of Bank provided for herein or in the Loan Agreement or any of the Loan Documents, or now or hereafter existing at law or in equity shall be cumulative and concurrent and shall be in addition to every right, power or remedy provided for herein and the exercise by Bank of any one or more of the rights, powers or remedies provided for in this Intellectual Property Security Agreement, the Loan Agreement or any of the other Loan Documents, or now or hereafter existing at law or in equity, shall not preclude the simultaneous or later exercise by any person, including Bank, of any or all other rights, powers or remedies.

Grantor represents and warrants that Exhibits A, B, and C attached hereto set forth any and all intellectual property rights in connection to which Grantor has registered or filed an application with either the United States Patent and Trademark Office or the United States Copyright Office, as applicable.

All capitalized terms used herein without definition shall have the meanings ascribed to them in the Loan Agreement. This Agreement may be executed in two or more counterparts, each of which shall be deemed an original but all of which together shall constitute the same instrument.

*[remainder of page intentionally left blank]*

IN WITNESS WHEREOF, the parties have caused this Intellectual Property Security Agreement to be duly executed by its officers thereunto duly authorized as of the first date written above.

**GRANTORS:**

Address of Grantor:

2189 Flinstone Drive  
Tucker, GA 30084

Attn:

**COALTEK, INC.**

By: \_\_\_\_\_  
Name: \_\_\_\_\_  
Title: \_\_\_\_\_

Address of Grantor:

2189 Flinstone Drive  
Tucker, GA 30084

Attn:

**COALTEK CALVERT CITY LLC**

By: \_\_\_\_\_  
Name: \_\_\_\_\_  
Title: \_\_\_\_\_

Address of Grantor:

2189 Flinstone Drive  
Tucker, GA 30084

Attn:

**COALTEK SALES, LLC**

By: \_\_\_\_\_  
Name: \_\_\_\_\_  
Title: \_\_\_\_\_

Address of Bank:

m/c 7578  
39200 W. Six Mile Road  
Livonia, MI 48152

Attn: National Documentation Services

**BANK:**

**COMERICA BANK**

By: \_\_\_\_\_  
Name: ROBERT HERRANDEZ  
Title: SENIOR VICE PRESIDENT

**EXHIBIT A**

**Copyrights**

<u>Description</u>	<u>Registration Number</u>	<u>Registration Date</u>
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## EXHIBIT B

### Patents

The Grantor currently uses inventions of Jerry Weinberg, Neil Ginther, Jed Aten and Ru Wang (the "Inventors") assigned to the Company pursuant to the Assignment dated as of February 22, 2005. The Inventors have assigned to the Company all of the rights associated with such inventions.

2. U.S. Utility (non-provisional) Patent Application Serial No. 11/009,301; filed December 10, 2004 (status: patented) Pre-burning, dry process methodology and systems for enhancing solid fuel properties, patent number 7,901,473, issued March 8, 2011
3. International PCT Patent Application No. PCT/US2004/041786; filed December 10, 2004 (status: expired)
4. National-phase patent applications from PCT/US2004/041786:
  - a) Australian patent application No. 2004299837, filed Dec. 10, 2004, granted, patent no. 2004299837, issue January 6, 2011
  - b) Australian patent application No. 2010257374, priority date December 10, 2004, pending
  - c) Canadian patent application No. 2549193, filed Dec. 10, 2004, pending
  - d) Chinese patent application No. 200480037129.4, filed Dec. 10, 2004, pending
  - e) Columbian patent application No. 06067528, filed Dec. 10, 2004, pending
  - f) European patent application No. 04814024.8, filed Dec. 10, 2004, pending
  - g) European patent application No. 10014392.4, divisional of 04814024.8, priority date December 10, 2004, pending
  - h) Hong Kong patent application No. 7108831.9, filed August 14, 2007, pending
  - i) Indonesian patent application No. 200601929, filed Dec. 10, 2004, granted, patent no. ID P0027178, issued December 9, 2010
  - j) Indian patent application No. 3306/DELNP/06, filed Dec. 10, 2004, pending
  - k) Japanese patent application No. 2006-544094, filed Dec. 10, 2004, pending
  - l) Korean patent application No. 10-2006-7014030, filed Dec. 10, 2004, pending
  - m) Mexican patent application No. PA/a/2006/006664, filed Dec. 10, 2004, allowed
  - n) Mexican patent application No. MX/a/2011/009335, divisional of PA/a/2006/006664, priority date December 10, 2004, pending
  - o) Russian patent application No. 2006124866, filed Dec. 10, 2004, granted, patent no. 2366689, issue date September 10, 2009
  - p) Ukrainian patent application No. 200607632, filed Dec. 10, 2004, granted, patent no. 84185, issue date September 25, 2008
5. U.S. Utility (non-provisional) Patent Application Serial No. 11/695,554; filed April 2, 2007 (status: pending) Methods and systems for enhancing solid fuel properties
6. International PCT Patent Application No. PCT/US2007/065801; filed April 2, 2007 (status: expired)
7. National-phase patent applications from PCT/US2007/065801:
  - a) Australian patent application No. 2007234453, filed April 2, 2007, granted, patent no. 2007234453, issue date September 1, 2011
  - b) Canadian patent application No. 2647698, filed April 2, 2007, pending
  - c) Chinese patent application No. 200780020196.9, filed April 2, 2007, pending
  - d) European patent application No. 07759973.6, filed April 2, 2007, allowed, validated in Germany, France, UK, and Italy
  - e) Indonesian patent application No. W-00 2008 03197, filed April 2, 2007, pending
  - f) Indian patent application No. 8257/DELNP/2008, filed April 2, 2007, pending
  - g) Japanese patent application No. 2009-503337, filed April 2, 2007, pending
  - h) Korean patent application No. 10-2008-7026852, filed April 2, 2007, pending

- i) Mexican patent application No. MX/a/2008/012355, filed April 2, 2007 granted, patent no. 297851, issue date April 3, 2012
  - j) Russian patent application No. 2008143256, filed April 2, 2007, allowed
  - k) Russian patent application – divisional from application No. 2008143256, priority date April 2, 2007, pending
  - l) Ukrainian patent application No. 2008 11658, filed April 2, 2007, granted, patent no. 94090, issue date April 11, 2011
8. U.S. Utility (non-provisional) Patent Application Serial No. 12/247,004; filed October 7, 2008 (status: pending) Methods and systems for briquetting solid fuel
  9. International PCT Patent Application No. PCT/US2008/079087; filed October 7, 2008 (status: expired)
  10. National-phase patent applications from PCT/US2008/079087:
    - a) Australian patent application No. 2008310990, priority date October 7, 2008, pending
    - b) Canadian patent application No. 2701958, priority date October 7, 2008, pending
    - c) Chinese patent application No. 200880119652.X, priority date October 7, 2008, pending
    - d) European patent application No. 08837553.0, priority date October 7, 2008, pending
    - e) Indonesian patent application No. W-00 2010 01122, priority date October 7, 2008, pending
    - f) Indian patent application No. 1407/KOLNP/2010, priority date October 7, 2008, pending
  11. U.S. Utility (non-provisional) Patent Application Serial No. 12/435,514; filed May 5, 2009 (status: pending) Methods and systems for processing solid fuel
  12. International PCT Patent Application No. PCT/US2009/042780; filed May 5, 2009 (status: expired)
  13. National-phase patent applications from PCT/US2009/042780:
    - a) Australian patent application No. 2009244461, priority date May 5, 2009, pending
    - b) Canadian patent application No. 2723371, priority date May 5, 2009, pending
    - c) Chinese patent application No. 200980126207.0, priority date May 5, 2009, pending
    - d) European patent application No. 09743423.7, priority date May 5, 2009, pending
    - e) Indonesian patent application No. W-00 2010 04175, priority date May 5, 2009, pending
    - f) Indian patent application No. 4181/KOLNP/2010, priority date May 5, 2009,
    - g) South African patent application No. 2011/02543 priority date May 5, 2009, pending
  14. U.S. Utility (non-provisional) Patent Application Serial No. 12/186,804; filed August 6, 2008 (status: pending) Pre-burning, dry process methodology and systems for enhancing metallurgical solid fuel properties
  15. The Grantor has the registered domain name [www.CoalTek.com](http://www.CoalTek.com)
  16. Coaltek has registered domain name [www.coaltek.net](http://www.coaltek.net)

**EXHIBIT C**

**Trademarks**

<u>Description</u>	<u>Serial / Registration Number</u>	<u>Registration/ Application Date</u>
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