

## 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>Jonathan S. Morrell</td><td>09/30/2008</td></tr><tr><td>Edward B. Ripley</td><td>09/30/2008</td></tr></tbody></table>	Name	Execution Date	Jonathan S. Morrell	09/30/2008	Edward B. Ripley	09/30/2008	
Name	Execution Date						
Jonathan S. Morrell	09/30/2008						
Edward B. Ripley	09/30/2008						
RECEIVING PARTY DATA							
Name:	Babcock & Wilcox Technical Services Y-12, LLC						
Street Address:	Bear Creek and Scarboro Roads						
City:	Oak Ridge						
State/Country:	TENNESSEE						
Postal Code:	37831						
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>12243247</td></tr></tbody></table>	Property Type	Number	Application Number:	12243247			
Property Type	Number						
Application Number:	12243247						
CORRESPONDENCE DATA							
Fax Number:	(865)523-4478						
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>							
Phone:	865-546-4305						
Email:	JPALMER@LNG-PATENT.COM						
Correspondent Name:	BWXT - Y12, LLC LUEDEKA, NEELY & GRAHAM,						
Address Line 1:	P.O. BOX 1871						
Address Line 4:	KNOXVILLE, TENNESSEE 37901						
ATTORNEY DOCKET NUMBER:	64150.US						
NAME OF SUBMITTER:	James R. Palmer						
Total Attachments: 2 source=64150us-corres-20080930-ExecutedAssignment#page1.tif source=64150us-corres-20080930-ExecutedAssignment#page2.tif							

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PATENT  
REEL: 021616 FRAME: 0056

## *Assignment*

For good and valuable consideration, receipt of which is hereby acknowledged, We, the undersigned, have assigned and do hereby assign to **Babcock & Wilcox Technical Services Y-12, LLC**, a limited liability company of Delaware, having its principal place of business at Bear Creek and Scarboro Roads, Oak Ridge, Tennessee 37831, its successors, assigns and legal representatives, the entire right, title and interest throughout the world in and to all subject matter invented by us and disclosed in the application identified below:

Title: **PASSIVE IN-SITU CHEMICAL SENSOR**

Inventor(s): Jonathan S. Morrell

9/30/08  
Date of Execution of Declaration

Edward B. Ripley

9-30-08  
Date of Execution of Declaration

and in and to all Letters Patent and all Convention and treaty rights of all kinds, in all countries throughout the world, for all such subject matter. We agree to sign all papers necessary to secure all said Letters Patent to the above assignee in accordance with the Assignment.

9/30/08  
Date of Execution of Assignment

Jonathan S. Morrell  
Jonathan S. Morrell

9-30-08  
Date of Execution of Assignment

Edward B. Ripley  
Edward B. Ripley

STATE OF TENNESSEE

COUNTY OF Roane

I hereby certify that before me appeared **Jonathan S. Morrell**, personally known by me, who then and there was duly sworn by me, and under oath acknowledged that the foregoing assignment was duly signed, sealed and delivered by him on the date appearing at the foot thereof.

Date: 4/30/08

Nancy D. Hammons  
Notary Public

My Commission Expires: 4/22/2012



\*\*\*\*\*

STATE OF TENNESSEE

COUNTY OF Roane

I hereby certify that before me appeared **Edward B. Ripley**, personally known by me, who then and there was duly sworn by me, and under oath acknowledged that the foregoing assignment was duly signed, sealed and delivered by him on the date appearing at the foot thereof.

Date: 4/30/08

Nancy D. Hammons  
Notary Public

My Commission Expires: 4/22/2012



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