PATENT ASSIGNMENT

Electronic Version v1.1
Stylesheet Version v1.1

SUBMISSION TYPE: NEW ASSIGNMENT

NATURE OF CONVEYANCE: ASSIGNMENT

CONVEYING PARTY DATA

<table>
<thead>
<tr>
<th>Name</th>
<th>Execution Date</th>
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</thead>
<tbody>
<tr>
<td>Larry W Fullerton</td>
<td>04/27/2009</td>
</tr>
<tr>
<td>Mark D Roberts</td>
<td>04/23/2009</td>
</tr>
<tr>
<td>James L Richards</td>
<td>04/27/2009</td>
</tr>
</tbody>
</table>

RECEIVING PARTY DATA

Name: Cedar Ridge Research, LLC
Street Address: 125 Peter Lane
City: New Hope
State/Country: ALABAMA
Postal Code: 35760

PROPERTY NUMBERS Total: 1

<table>
<thead>
<tr>
<th>Property Type</th>
<th>Number</th>
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<tr>
<td>Application Number</td>
<td>12476952</td>
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CORRESPONDENCE DATA

Fax Number: (202)344-8300
Correspondence will be sent via US Mail when the fax attempt is unsuccessful.
Phone: 202-344-4000
Email: vpruitt@venable.com
Correspondent Name: Venable LLP
Address Line 1: 575 7th Street, N.W.
Address Line 4: Washington, DISTRICT OF COLUMBIA 20004

ATTORNEY DOCKET NUMBER: 89236-269364

NAME OF SUBMITTER: Robert S. Babayi

Total Attachments: 2
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WORLDWIDE ASSIGNMENT

WHEREAS Larry W. Fullerton, Mark D. Roberts, and James L. Richards, hereinafter (collectively) referred to as the assignor, has invented a certain improvement relating to the improvement relating A FIELD EMISSION SYSTEM AND METHOD, which said assignor has caused an application for United States Letters Patent to be prepared,

[X] the inventor's declaration for said application being executed concurrently with the execution of this instrument; said application to be filed in the United States Patent and Trademark Office.
[ ] said application having been filed in the United States Patent and Trademark Office on ________, Serial Number ________, and provisional application number ________, filed ________;

WHEREAS Cedar Ridge Research, LLC., 125 Peter Lane, New Hope, Alabama 35760, hereinafter referred to as the assignee, is desirous of acquiring the entire right, title and interest in and to said application, including any and all divisions and continuations thereof, and in and to said invention and any and all patents which may be granted therefrom, including any and all renewals, reissues and prolongations thereof;

NOW THIS WITNESSETH, that for and in consideration of One Dollar ($1.00), and other good and valuable consideration paid by Assignee to Assignor, the receipt and sufficiency of which is hereby acknowledged, Assignor hereby assigns, sells and transfers, and has assigned, sold, and transferred to Assignee, its successors and assigns, the entire right, title and interest in the invention, or patents resulting therefrom, for and during the term or terms of any and all such patents when granted, for the use and benefit of said assignee, and said assignee's successors and assigns, in as ample and beneficial a manner as Assignor might or could have held and enjoyed the same, if this assignment had not been made.

Assignor further hereby assigns, sells and transfers, and has assigned, sold, and transferred to Assignee, its successors and assigns, the entire right, title and interest in all countries of the world, in and to the invention and in and to the application and all patents which may be granted therefor, and all national applications, regional applications, divisions, reissues, substitutions, continuations, in whole or in part, re-examinations, and extensions thereof, including the right to file applications and obtain patents for the invention in its own name, in all countries and including all rights of priority in all countries under the terms of any applicable international convention, insofar as its interest is concerned; and the Assignor hereby authorizes and requests the Commissioner of Patents and Trademarks to issue all patents for the invention, or patents resulting therefrom, insofar as its interest is concerned, to Assignee, to have and to hold for the sole and exclusive use and benefit of the Assignee, its successors and assigns, to the full extent of the term or terms for which any and all of such patents for the invention may issue, to the same extent as the Assignor would hold and enjoy if this Assignment had not been made.

The Assignor further agrees to execute any and all patent applications, assignments, affidavits, and any other papers in connection therewith necessary to perfect such patent rights, and also agrees, at the request of the Assignee, to testify in any legal proceedings, sign all lawful papers, make all lawful oaths, and generally do everything possible to aid said Assignee, its successors and assigns, to obtain, maintain and enforce proper patent protection for said invention.
IN WITNESS WHEREOF, each individual collectively referred to as Assignor has caused this Assignment to be executed.

EXECUTED this 27th day of April, 2009.

ASSIGNOR: 
Signature: 
Name: Larry W. Fullerton

WITNESS: 
Signature: 
Name: 
Address:

EXECUTED this 23rd day of April, 2009.

ASSIGNOR: 
Signature: 
Name: Mark D. Roberts

WITNESS: 
Signature: 
Name: Laurice B. Roberts
Address: 416 Zondak Drive

EXECUTED this 27th day of April, 2009.

ASSIGNOR: 
Signature: 
Name: James L. Richards

WITNESS: 
Signature: 
Name: 
Address:

#1024241

Venable, Baetjer and Howard, LLP