

**PATENT ASSIGNMENT**

Electronic Version v1.1  
 Stylesheet Version v1.1

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT								
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT								
<b>CONVEYING PARTY DATA</b>									
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:70%;">Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Michael A. Miller</td> <td>01/19/2007</td> </tr> <tr> <td>Kent E. Coulter</td> <td>01/19/2007</td> </tr> <tr> <td>James H. Arps</td> <td>01/11/2007</td> </tr> </tbody> </table>		Name	Execution Date	Michael A. Miller	01/19/2007	Kent E. Coulter	01/19/2007	James H. Arps	01/11/2007
Name	Execution Date								
Michael A. Miller	01/19/2007								
Kent E. Coulter	01/19/2007								
James H. Arps	01/11/2007								
<b>RECEIVING PARTY DATA</b>									
<b>Name:</b>	Southwest Research Institute								
<b>Street Address:</b>	6220 Culebra Road								
<b>City:</b>	San Antonio								
<b>State/Country:</b>	TEXAS								
<b>Postal Code:</b>	78238-5166								
<b>PROPERTY NUMBERS Total: 1</b>									
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:30%;">Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>11615572</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	11615572				
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Application Number:	11615572								
<b>CORRESPONDENCE DATA</b>									
<b>Fax Number:</b>	(603)668-2970								
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>									
<b>Phone:</b>	6036686560								
<b>Email:</b>	jboisvert@gtpp.com								
<b>Correspondent Name:</b>	Jessica Boisvert								
<b>Address Line 1:</b>	55 South Commercial Street								
<b>Address Line 4:</b>	Manchester, NEW HAMPSHIRE 03101								
<b>ATTORNEY DOCKET NUMBER:</b>	SWR3245								
<b>NAME OF SUBMITTER:</b>	Steven J. Grossman								

**OP \$40.00 11615572**

Total Attachments: 5  
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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

**In Re Application of** §  
Michael A. Miller, et al. §  
§  
**Serial No.:** 11/615,572 § **Action:** Assignment  
§  
**Filed:** December 22, 2006 §

**Title:** Nanoengineered Material for Hydrogen Storage

**TO: Commissioner of Patents  
and Trademarks  
Washington, DC 20231**

WHEREAS, we, MICHAEL A. MILLER, a citizen of the United States, residing at 4304 Shavano Woods, San Antonio, Bexar County, Texas, and KENT E. COULTER, a citizen of the United States, residing at 7419 Secretariat Lane, Fair Oaks Ranch, Bexar County, Texas, together with JAMES H. ARPS, are joint inventors of new and useful improvements in *NANOENGINEERED MATERIAL FOR HYDROGEN STORAGE* for which we have executed an application for Letters Patent which was filed on December 22, 2006;

WHEREAS, we represent that we are joint owners of said invention and application for Letters Patent; and,

WHEREAS, SOUTHWEST RESEARCH INSTITUTE, hereinafter called "ASSIGNEE," a Texas Corporation having its principal office at 6220 Culebra Road, San Antonio, Bexar County, Texas 78238-5166, is desirous of acquiring our right, title and interest in and to the said application and the invention therein described and claimed and any Letters Patent that may be issued upon said application or for the invention therein contained;

NOW, THEREFORE, for and in consideration of the sum of Sixty-Five Dollars (\$65.00), lawful money of the United States, and other valuable consideration, to each of us in hand paid, the receipt and sufficiency whereof we hereby acknowledge, we, the said MICHAEL A. MILLER and KENT E. COULTER, hereinafter called "ASSIGNORS" have sold, assigned and transferred, and do hereby sell, assign and transfer unto the said ASSIGNEE, its successors and assigns, our entire right, title and interest in and to (a) said invention and worldwide rights therein, including the right to

claim the priority date of said application and all other rights arising under the International Convention for the Protection of Industrial Property; (b) said application, including all divisions, continuations, continuations-in-part and substitutions thereof; and (c) all United States and foreign patents which shall issue on said invention, including all reissues, renewals, divisions and extensions thereof, for the United States, its territories and possessions and all foreign countries, including the right to file applications for Letters Patent on said invention in any and all foreign countries, the same to be held and enjoyed by said ASSIGNEE, its assigns and successors, as fully and entirely as the same would have been held and enjoyed by us, had this Assignment and sale not been made.

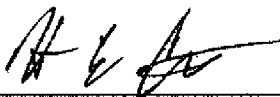
We request that any and all such Letters Patent for said invention be issued to ASSIGNEE, its successors, assigns and legal representatives, or to such nominees as it may designate.

We covenant and agree that we and our executors or administrators will, at any time upon the request and at the expense of said ASSIGNEE, execute and deliver any and all papers and perform all lawful acts that may be necessary or desirable, in the opinion of said ASSIGNEE, to enable and assist said ASSIGNEE to (a) obtain Letters Patent, both domestic and foreign, on said invention; (b) establish, maintain and secure title in said ASSIGNEE, its successors and assigns, to said invention, application and Letters Patent, including making such title of lawful public record; and (c) defend, establish or otherwise preserve the validity of said Letters Patent against any and all infringers, and perform such other acts as are necessary to give full force and effect to this Assignment.

ASSIGNORS further covenant with ASSIGNEE that the rights and property herein conveyed are free and clear of any encumbrances, and that ASSIGNORS have the full right to convey the same as herein expressed.

IN TESTIMONY WHEREOF, we have fully executed this Assignment this 19<sup>th</sup> day of January, 2007.

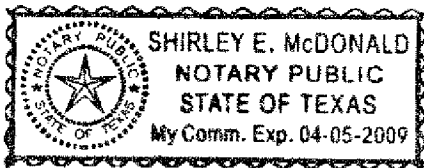
  
\_\_\_\_\_  
Michael A. Miller

  
\_\_\_\_\_  
Kent E. Coulter

STATE OF TEXAS           §  
  §  
COUNTY OF BEXAR       §

BEFORE ME, the undersigned authority, on this day personally appeared MICHAEL A. MILLER, known to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that he executed the same for the purposes and consideration therein expressed.

GIVEN under my hand and seal of office this 18<sup>th</sup> day of January, 2007.

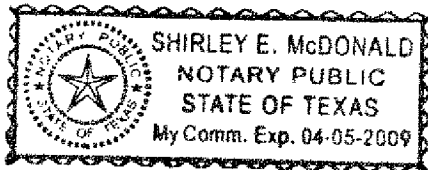


Shirley E. McDonald  
Notary Public, State of Texas

STATE OF TEXAS           §  
  §  
COUNTY OF BEXAR       §

BEFORE ME, the undersigned authority, on this day personally appeared KENT. E. COULTER, known to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that he executed the same for the purposes and consideration therein expressed.

GIVEN under my hand and seal of office this 19<sup>th</sup> day of January, 2007.



Shirley E. McDonald  
Notary Public, State of Texas

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

**In Re Application of** §  
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**Filed:** December 22, 2006 §

**Title:** Nanoengineered Material for Hydrogen Storage

**TO: Commissioner of Patents  
and Trademarks  
Washington, DC 20231**

WHEREAS, I, JAMES H. ARPS, a citizen of the United States, residing at 741 Sierra Trail, Chanhassen, MN 55317, together with MICHAEL A. MILLER and KENT E. COULTER, am a joint inventor of new and useful improvements in *NANOENGINEERED MATERIAL FOR HYDROGEN STORAGE* for which we have executed an application for Letters Patent which was filed on December 22, 2006;

WHEREAS, I represent that we are joint owners of said invention and application for Letters Patent; and,

WHEREAS, SOUTHWEST RESEARCH INSTITUTE, hereinafter called "ASSIGNEE," a Texas Corporation having its principal office at 6220 Culebra Road, San Antonio, Bexar County, Texas 78238-5166, is desirous of acquiring my right, title and interest in and to the said application and the invention therein described and claimed and any Letters Patent that may be issued upon said application or for the invention therein contained;

NOW, THEREFORE, for and in consideration of the sum of Sixty-Five Dollars (\$65.00), lawful money of the United States, and other valuable consideration, to me in hand paid, the receipt and sufficiency whereof I hereby acknowledge, I, the said JAMES H. ARPS, hereinafter called "ASSIGNOR" have sold, assigned and transferred, and do hereby sell, assign and transfer unto the said ASSIGNEE, its successors and assigns, my entire right, title and interest in and to (a) said invention and worldwide rights therein, including the right to claim the priority date of said application and all other rights arising under the International Convention for the Protection of


Industrial Property; (b) said application, including all divisions, continuations, continuations-in-part and substitutions thereof; and (c) all United States and foreign patents which shall issue on said invention, including all reissues, renewals, divisions and extensions thereof, for the United States, its territories and possessions and all foreign countries, including the right to file applications for Letters Patent on said invention in any and all foreign countries, the same to be held and enjoyed by said ASSIGNEE, its assigns and successors, as fully and entirely as the same would have been held and enjoyed by me, had this Assignment and sale not been made.

I request that any and all such Letters Patent for said invention be issued to ASSIGNEE, its successors, assigns and legal representatives, or to such nominees as it may designate.

I covenant and agree that I and my executors or administrators will, at any time upon the request and at the expense of said ASSIGNEE, execute and deliver any and all papers and perform all lawful acts that may be necessary or desirable, in the opinion of said ASSIGNEE, to enable and assist said ASSIGNEE to (a) obtain Letters Patent, both domestic and foreign, on said invention; (b) establish, maintain and secure title in said ASSIGNEE, its successors and assigns, to said invention, application and Letters Patent, including making such title of lawful public record; and (c) defend, establish or otherwise preserve the validity of said Letters Patent against any and all infringers, and perform such other acts as are necessary to give full force and effect to this Assignment.

ASSIGNOR further covenants with ASSIGNEE that the rights and property herein conveyed are free and clear of any encumbrances, and that ASSIGNOR has the full right to convey the same as herein expressed.

IN TESTIMONY WHEREOF, I have fully executed this Assignment this 11<sup>th</sup> day of January, 2007.

  
James H. Arps