

**PATENT ASSIGNMENT**

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
Rijing Zhan	06/15/2009
Phillip A. Weber	06/15/2009
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	Southwest Research Institute
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<b>City:</b>	San Antonio
<b>State/Country:</b>	TEXAS
<b>Postal Code:</b>	78238
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	12470156
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<b>NAME OF SUBMITTER:</b>	Crystle Garbade
<b>Total Attachments: 3</b> source=12470156-assignment#page1.tif source=12470156-assignment#page2.tif source=12470156-assignment#page3.tif	

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

**In Re Application of**  
Rijing Zhan, et al.

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**Serial No.:** 12/470,156

**Action:** Assignment

**Filed:** May 21, 2009

**Title:** Exhaust Aftertreatment Systems for Gasoline and Alternative-Fueled Engines,  
With Reduction of HC, CO, NO<sub>x</sub>, and PM

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

WHEREAS, we, RIJING ZHAN, a citizen of China, residing at 1723 Montecino, San Antonio, Bexar County, Texas, and PHILLIP A. WEBER, a citizen of the United States, residing at 31026 Kenneland Drive, San Antonio, Bexar County, Texas, are joint inventors of new and useful improvements in *EXHAUST AFTERTREATMENT SYSTEMS FOR GASOLINE AND ALTERNATIVE-FUELED ENGINES WITH REDUCTION OF HC, CO, NO<sub>x</sub>, AND PM*, for which we have executed an application for Letters Patent that was filed on May 21, 2009;

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 RIJING ZHAN and PHILLIP A. WEBER, 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 duly executed this Assignment on the date indicated below.

  
\_\_\_\_\_  
Rijng Zhan

6-15-2009  
\_\_\_\_\_  
Date

*Phillip A. Weber*  
Phillip A. Weber

6-15-09  
Date

STATE OF TEXAS       §  
                                  §  
COUNTY OF BEXAR   §

BEFORE ME, the undersigned authority, on this day personally appeared RIJING ZHAN, 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 15th day of June, 2009.

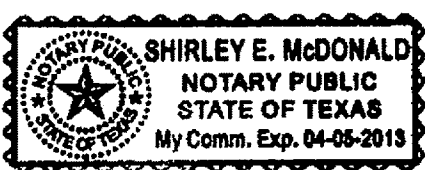


*Shirley E. McDonald*  
Notary Public, State of Texas

STATE OF TEXAS       §  
                                  §  
COUNTY OF BEXAR   §

BEFORE ME, the undersigned authority, on this day personally appeared PHILLIP A. WEBER, 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 15th day of June, 2009.



*Shirley E. McDonald*  
Notary Public, State of Texas