

PATENT ASSIGNMENT

Electronic Version v1.1
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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>Jess W. Gingrich</td> <td>02/08/2013</td> </tr> <tr> <td>Terrence F. Alger II</td> <td>02/08/2013</td> </tr> </tbody> </table>		Name	Execution Date	Jess W. Gingrich	02/08/2013	Terrence F. Alger II	02/08/2013				
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RECEIVING PARTY DATA											
<table border="1"> <tr> <td>Name:</td> <td>Southwest Research Institute</td> </tr> <tr> <td>Street Address:</td> <td>6220 Culebra Road</td> </tr> <tr> <td>City:</td> <td>San Antonio</td> </tr> <tr> <td>State/Country:</td> <td>TEXAS</td> </tr> <tr> <td>Postal Code:</td> <td>78238-5166</td> </tr> </table>		Name:	Southwest Research Institute	Street Address:	6220 Culebra Road	City:	San Antonio	State/Country:	TEXAS	Postal Code:	78238-5166
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PROPERTY NUMBERS Total: 1											
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CORRESPONDENCE DATA											
<p>Fax Number: 2105228365 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Phone: 210-522-5560 Email: shirley.mcdonald@swri.org Correspondent Name: Shirley E. McDonald Address Line 1: 6220 Culebra Road Address Line 4: San Antonio, TEXAS 78238-5166</p>											
ATTORNEY DOCKET NUMBER:	3616 HEDGE II										
NAME OF SUBMITTER:	Shirley E. McDonald										
<p>Total Attachments: 3 source=3616 Assignment#page1.tif source=3616 Assignment#page2.tif source=3616 Assignment#page3.tif</p>											

OP \$40.00 13742627

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re Application of	§	
Jess W. Gingrich, et al	§	
	§	
Serial No.: 13/742,627	§	Action: Assignment
	§	
Filed: January 16, 2013	§	

Title: Improved Ignition and Knock Tolerance in Internal Combustion Engine by Controlling EGR Composition

**TO: Commissioner of Patents
and Trademarks
Alexandria, VA 22313**

WHEREAS, we, JESS W. GINGRICH, a citizen of the United States, residing at 7312 Moss Brook Cove, San Antonio, Bexar County, Texas, and TERRENCE F. ALGER II, a citizen of the United States, residing at 47 Gemsbuck Rise, San Antonio, Bexar County, Texas, are joint inventors of new and useful improvements in *IMPROVED IGNITION AND KNOCK TOLERANCE IN INTERNAL COMBUSTION ENGINE BY CONTROLLING EGR COMPOSITION* for which we have executed an application for Letters Patent which was filed on January 16, 2013; and,

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, the receipt and sufficiency whereof we hereby acknowledge, we, the said JESS W. GINGRICH and TERRENCE F. ALGER II, 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

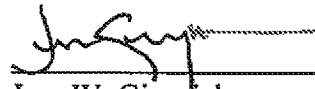
said application and all other rights arising under the International Convention for the Protection of Industrial Property; (b) said application, including all divisions, continuations, continuations-in-part and substitutions thereof; and (c) all United States and foreign patents which shall issue on 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.

ASSIGNORS 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.

ASSIGNORS 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.

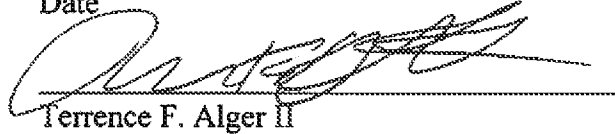
IN TESTIMONY WHEREOF, we have duly executed this Assignment on the date indicated below.



Jess W. Gingrich

2/8/2013

Date



Terrence F. Alger II

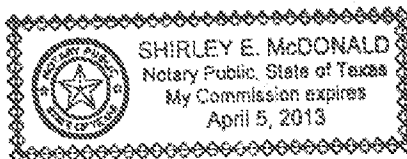
8 Feb 13

Date

STATE OF TEXAS §
 §
COUNTY OF BEXAR §

BEFORE ME, the undersigned authority, on this day personally appeared JESS W. GINGRICH, 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 8th day of February, 2013.

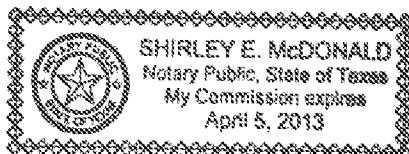


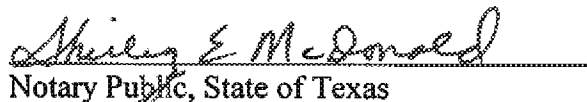

Notary Public, State of Texas

STATE OF TEXAS §
 §
COUNTY OF BEXAR §

BEFORE ME, the undersigned authority, on this day personally appeared TERRENCE F. ALGER II, 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 8th day of February, 2013.




Notary Public, State of Texas