

PATENT ASSIGNMENT

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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>John P Clark</td> <td>04/05/2012</td> </tr> <tr> <td>Jamie J Johnson</td> <td>04/05/2012</td> </tr> <tr> <td>Michael K Ooten</td> <td>04/05/2012</td> </tr> </tbody> </table>		Name	Execution Date	John P Clark	04/05/2012	Jamie J Johnson	04/05/2012	Michael K Ooten	04/05/2012
Name	Execution Date								
John P Clark	04/05/2012								
Jamie J Johnson	04/05/2012								
Michael K Ooten	04/05/2012								
RECEIVING PARTY DATA									
Name:	Government of the United States, as represented by the Secretary of the Air Force								
Street Address:	2240 B Street								
Internal Address:	AFMCLO/JAZ								
City:	Wright-Patterson AFB								
State/Country:	OHIO								
Postal Code:	45433								
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>13440336</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13440336				
Property Type	Number								
Application Number:	13440336								
CORRESPONDENCE DATA									
Fax Number:	(937)255-3733								
Phone:	937-255-2838								
Email:	pamela.kuns@wpafb.af.mil								
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i>									
Correspondent Name:	DEPARTMENT OF THE AIR FORCE								
Address Line 1:	AFMC LO/JAZ								
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Address Line 4:	WRIGHT-PATTERSON AFB, OHIO 45433-7109								
ATTORNEY DOCKET NUMBER:	AFD 1198								
NAME OF SUBMITTER:	Charles R. Figer, Jr.								
Total Attachments: 2 source=AFD-1198_Executed_Assignment#page1.tif source=AFD-1198_Executed_Assignment#page2.tif									

CH \$40.00 13440336

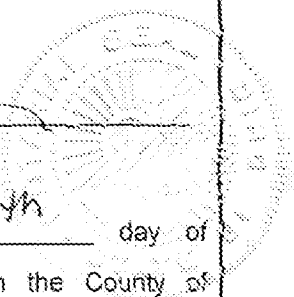
ASSIGNMENT

WHEREAS we, John P Clark, Jamie J Johnson, Michael K Ooten while employed by the United States of America, made an invention described in invention disclosure AFD 1198 was entitled "Film Cooling Performance Optimization for Enhanced High Pressure Turbine Durability", to be filed as an application for Letters Patent of the United States (Application number 13/440,336, filed April 5, 2012), and We hereby authorize and request AFMCLO/JAZ to insert here in the above parentheses (Application number, filed) the filing date and application number of said application when known;

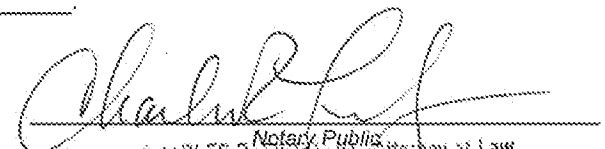
WHEREAS, the conditions under which said invention was made are such as to entitle the Government under paragraph 1(a) of Executive Order 10096, to the entire right, title and interest therein, including foreign rights; and

NOW, THEREFORE, to all whom it may concern, be it known that for and in consideration of the premises and other valuable considerations, We, John P Clark, Jamie J Johnson, Michael K Ooten, have sold, assigned, and transferred, and by these presents do sell, assign, and transfer unto the Government of the United States, as represented by the Secretary of the Air Force, our entire right, title and interest throughout the world in and to the aforesaid joint invention described in the aforesaid application for Letters Patent of the United States, and any and all applications for patent and patents in any and all countries foreign to the United States, and all Letters Patent issuing thereon and any continuations, continuations-in-part, divisions, and reissues or extensions thereof; and all priority resulting from the filing of the aforesaid application for patent in the United States; We hereby authorize and request any official whose duty it is to issue patents to issue any patent thereon to the United States of America, as represented by the Secretary of the Air Force, and his successors, as assignee of our entire right, title and interest in and to the same, for the sole use for the full term or terms for which said patents and any continuations, continuations-in-part, divisions and reissues or extensions thereof are, or may be, granted as fully and entirely as the same would have been held by us had this Assignment not been made; and We do hereby also grant to the Government of the United States as represented by the Secretary of the Air Force, the option to take the entire right, title and interest in the invention or all applications for Letters Patent thereon in all countries foreign to the United States in which the United States of America may file, or cause to be filed, applications for Letters Patent, without payment to us of any further consideration; provided, however, that this grant of an option to take foreign rights in the invention must be exercised by written notice to us within eight months of the filing date of any application for United States Letters Patent covering the invention, or within eight months from the declassification of the invention, whichever is later, and that all foreign rights not exercised under the option are left to us subject to a nonexclusive, irrevocable, royalty-free license to the United States of America in any patent which may issue on said invention in any foreign country, including the power to issue sublicenses for use in behalf of the United States of America and/or in furtherance of the foreign policies of the United States of America; and I hereby agree to execute any and all applications for Letters Patent, and to furnish all data and documents and to execute any papers which may be necessary or convenient for the preparation, filing, or prosecution of such applications, except it is understood that We shall not be subject to any out-of-pocket expense relative to such action.


John P Clark



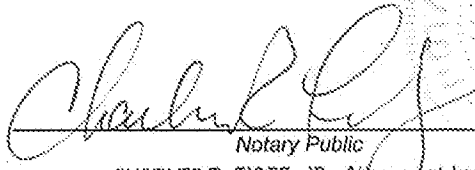
SUBSCRIBED AND ACKNOWLEDGED before me by (John P Clark) this 5th day of April 2012, at the city of WRIGHT-PATTERSON AFB in the County of Montgomery and State of Ohio.


Notary Public
CHARLES R. FISHER, JR., Attorney at Law
Notary Public, State of Ohio
My Commission has no expiration date.
Section 147.03 O. R. C.



Jamie J Johnson

SUBSCRIBED AND ACKNOWLEDGED before me by (Jamie J Johnson) this 5th day of April 2012, at the city of WRIGHT-PATTERSON AFB in the County of MONTEGOMERY and State of OHIO

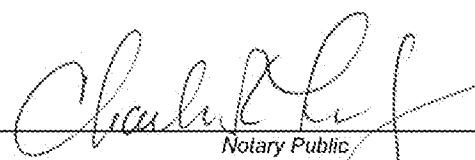


Notary Public
CHARLES R. FIGER, JR., Attorney at Law
Notary Public, State of Ohio
My Commission has no expiration date.
Section 147.03 O. R. C.



Michael K Ooten

SUBSCRIBED AND ACKNOWLEDGED before me by (Michael K Ooten) this 5th day of APRIL 2012, at the city of WRIGHT-PATTERSON AFB in the County of MONTEGOMERY and State of OHIO



Notary Public
CHARLES R. FIGER, JR., Attorney at Law
Notary Public, State of Ohio
My Commission has no expiration date.
Section 147.03 O. R. C.