

## RECORDATION FORM COVER SHEET PATENTS ONLY

To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below.

<p><b>1. Name of conveying party(ies)</b></p> <p>Rabi S. Bhattacharya      Lewis Rosado                  Nelson H. Forster      Amarendra K. Rai                  Hitesh Trivedi</p> <p>Additional name(s) of conveying party(ies) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>	<p><b>2. Name and address of receiving party(ies)</b></p> <p>Name: <u>The United States of America as represented by the Secretary of the Air Force</u></p> <p>Internal Address: <u>AFMCLO/JAZ</u>  <u>Bldg 11, Room 100</u></p> <p>Street Address: <u>2240 B Street</u></p> <p>City: <u>Wright-Patterson Air Force Base</u></p> <p>State: <u>Ohio</u></p> <p>Country: <u>U.S.A.</u>      Zip: <u>45433-7109</u></p> <p>Additional name(s) &amp; address(es) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>
<p><b>3. Nature of conveyance/Execution Date(s):</b></p> <p>Execution Date(s) <u>09/24/2007 and 09/18/2007</u></p> <p><input type="checkbox"/> Assignment      <input type="checkbox"/> Merger  <input type="checkbox"/> Security Agreement      <input type="checkbox"/> Change of Name  <input type="checkbox"/> Joint Research Agreement  <input checked="" type="checkbox"/> <u>Government Interest Assignment</u>  <input type="checkbox"/> Executive Order 9424, Confirmatory License  <input type="checkbox"/> Other _____</p>	<p><b>4. Application or patent number(s):</b>      <input type="checkbox"/> This document is being filed together with a new application.</p> <p>A. Patent Application No.(s)  <u>11/973,987</u></p> <p>B. Patent No.(s)</p> <p>Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>
<p><b>5. Name and address to whom correspondence concerning document should be mailed:</b></p> <p>Name: <u>Fredric L. Sinder</u></p> <p>Internal Address: <u>AFMCLO/JAZ</u>  <u>Bldg 11, Room 100</u></p> <p>Street Address: <u>2240 B Street</u></p> <p>City: <u>Wright-Patterson AFB</u></p> <p>State: <u>Ohio</u>      Zip: <u>45433-7109</u></p> <p>Phone Number: <u>(937) 255-2838</u></p> <p>Fax Number: <u>(937) 255-3733</u></p> <p>Email Address: <u>fredric.sinder@wpafb.af.mil</u></p>	<p><b>6. Total number of applications and patents involved:</b> <u>1</u></p> <p><b>7. Total fee (37 CFR 1.21(h) &amp; 3.41) \$</b> <u>40.00</u></p> <p><input type="checkbox"/> Authorized to be charged by credit card  <input checked="" type="checkbox"/> Authorized to be charged to deposit account  <input type="checkbox"/> Enclosed  <input type="checkbox"/> None required (government interest not affecting title)</p> <p><b>8. Payment Information</b></p> <p>a. Credit card      Last 4 Numbers _____                  Expiration Date: _____</p> <p>b. Deposit Account Number <u>AF01-0465</u>                  Authorized User Name <u>Fredric L. Sinder</u></p>
<p><b>9. Signature:</b> <u><i>Fredric L. Sinder</i></u>      <u><i>09/30/2007</i></u>                  Signature      Date</p> <p style="text-align: center;">FREDRIC L. SINDER                  Name of Person Signing</p>	

Total number of pages including cover sheet, attachments, and documents:

5

Documents to be recorded (including cover sheet) should be faxed to (571) 273-0140, or mailed to:  
 Mail Stop Assignment Recordation Services, Director of the USPTO, P.O. Box 1450, Alexandria, VA 22313-1450

CH \$40.00 010465 11973987

ASSIGNMENT.

Application Title: METAL COATINGS FOR REDUCED FRICTION IN COMPOSITES  
 Inventor(s): Rabi S. Bhattacharya, Hitesh Trivedi and Amarendra K. Rai  
 Date Inventor(s) Executed Declaration: 9/24/2007  
 Contractor: UES  
 Contract Number: F33615-02-D-2226  
 Contractor's Invention No.: Project P724  
 Air Force Invention No.: AFD 763

The undersigned Inventor(s) in recognition of their obligation as employee(s) of the Contractor to assign inventions to the Contractor, and pursuant to the obligations of the Contractor to the Government of the United States under the above contract, hereby assign to the United States of America, as represented by the Secretary of the Air Force, their entire right, title, and interest throughout the world in and to each invention disclosed and claimed in the above U.S. patent application, made jointly with Nelson H. Forster and Lewis Rosado, employees of the U.S. Government, and any substitution, division, or continuation of such patent application, subject to the reservation to the Contractor of any license to which the Contractor may be entitled under the above contract.

The Inventor(s) agree to assist the Contractor and the Government, upon request, by furnishing any available information and documents, performing all acts, and doing all things which may be reasonably necessary to prepare, file and prosecute such applications and make this assignment effective.

The Contractor joins in and agrees to this assignment and, except for the reservation of any license under the above contract, relinquishes and assigns to the United States of America as represented by the Secretary of the Air Force their entire right, title, and interest throughout the world in and to such inventions, and further agrees to furnish to the Government, upon request, any available information and documents necessary for the preparation, filing, and prosecution of such applications, for patent.

*Rabi Bhattacharya*

RABI S. BHATTACHARYA

SIGNED and acknowledged before me this 24<sup>th</sup> day of Sept, 2007, at the city of Dayton,  
 County of Greene, and State of Ohio.

*Barbara L. Vincent*

Notary Public

(seal)



BARBARA L. VINCENT  
 NOTARY PUBLIC, STATE OF OHIO  
 MY COMMISSION EXPIRES MARCH 31, 2010

*Hitesh Trivedi*

HITESH TRIVEDI

SIGNED and acknowledged before me this 24<sup>th</sup> day of Sept, 2007, at the city of Dayton,  
County of Greene, and State of Ohio.

*Barbara L. Vincent*  
Notary Public

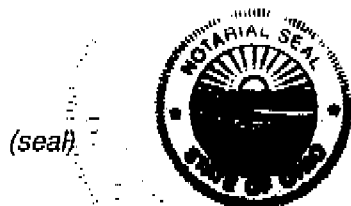
*Amarendra K. Rai*  
AMARENDR K. RAI



BARBARA L. VINCENT  
NOTARY PUBLIC, STATE OF OHIO  
MY COMMISSION EXPIRES MARCH 30, 2010

SIGNED and acknowledged before me this 24<sup>th</sup> day of Sept, 2007, at the city of Dayton,  
County of Greene, and State of Ohio.

*Barbara L. Vincent*  
Notary Public



BARBARA L. VINCENT  
NOTARY PUBLIC, STATE OF OHIO  
MY COMMISSION EXPIRES MARCH 30, 2010

FOR THE CONTRACTOR

Contractor: UES

By: *[Signature]*  
(Signature of officer or agent)

Date: 9-24-07

Printed Name: BRYCE W. SKINN

Title: BUSINESS RELATIONS MGR.

Business Address: 4401 Dayton-Xenia Drive  
Dayton, OH 45432

I, JOHN J. GRUENWALD, certify that I am the SECRETARY of the corporation named as Contractor herein; and that BRYCE W. SKINN who signed this assignment on behalf of the Contractor was then CONTRACTS MANAGER of said corporation; that said assignment was duly signed for and on behalf of said corporation by authority of its governing body, and is within the scope of its corporate powers.

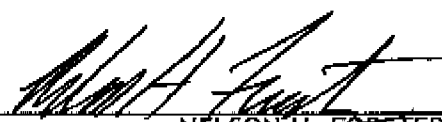
*[Signature]*  
(Signature of Secretary or certifying official)

**ASSIGNMENT**

WHEREAS We, Nelson H. Forster and Lewis Rosado, while employed by the Government of the United States, made jointly with Rabi S. Bhattacharya, Hitesh Trivedi and Amarendra K. Rai, an invention entitled METAL COATINGS FOR REDUCED FRICTION IN COMPOSITES, described in an application for Letters Patent of the United States executed by us on the 18th day of September 2007, and the 18th day of September 2007, respectively;

WHEREAS, the conditions under which the joint invention was made are such as to entitle the Government under paragraph 1(a) of Executive Order 10096, to our 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, Nelson H. Forster and Lewis Rosado, 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 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.



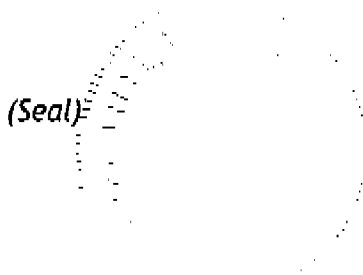
NELSON H. FORSTER

SIGNED and acknowledged before me this 18th day of September, 2007, at Wright-Patterson Air Force Base, County of Montgomery, and State of Ohio.



Notary Public

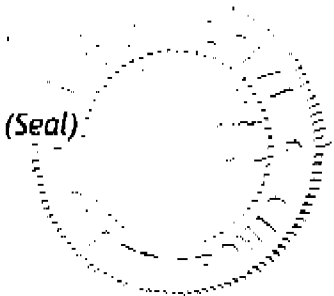
FREDRIC L. SINDER, Attorney at Law  
Notary Public, State of Ohio  
My Commission has no Expiration Date  
Section 147.03 R.C.



*Lewis Rosado*

LEWIS ROSADO

SIGNED and acknowledged before me this 18th day of September, 2007, at  
Wright-Patterson Air Force Base, County of Montgomery, and State of Ohio.



*Gerald B. Hollins*  
Notary Public

GERALD B. HOLLINS, Attorney at Law  
In and for the State of Ohio  
My Commission Has No Expiration Date.  
O. R. C. Sec. 147.03

PATENT

RECORDED: 10/30/2007

REEL: 020040 FRAME: 0941