

**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>Raoul Schlessner</td> <td>06/07/2006</td> </tr> <tr> <td>Rafael F. Dalmau</td> <td>06/07/2006</td> </tr> <tr> <td>Vladimir Noveski</td> <td>05/08/2006</td> </tr> <tr> <td>Zlatko Sitar</td> <td>06/07/2006</td> </tr> </tbody> </table>		Name	Execution Date	Raoul Schlessner	06/07/2006	Rafael F. Dalmau	06/07/2006	Vladimir Noveski	05/08/2006	Zlatko Sitar	06/07/2006
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Rafael F. Dalmau	06/07/2006										
Vladimir Noveski	05/08/2006										
Zlatko Sitar	06/07/2006										
<b>RECEIVING PARTY DATA</b>											
<b>Name:</b>	North Carolina State University										
<b>Street Address:</b>	920 Main Campus Drive, Suite 400										
<b>City:</b>	Raleigh										
<b>State/Country:</b>	NORTH CAROLINA										
<b>Postal Code:</b>	27695-8210										
<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>11398270</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	11398270						
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Application Number:	11398270										
<b>CORRESPONDENCE DATA</b>											
<b>Fax Number:</b>	(919)862-2260										
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>											
<b>Phone:</b>	919-862-2213										
<b>Email:</b>	tracey.wright@alston.com										
<b>Correspondent Name:</b>	Christopher M. Humphrey										
<b>Address Line 1:</b>	3201 Beechleaf Court, Suite 600										
<b>Address Line 4:</b>	Raleigh, NORTH CAROLINA 27604-1062										
<b>ATTORNEY DOCKET NUMBER:</b>	035051/309470										
<b>NAME OF SUBMITTER:</b>	Christopher M. Humphrey										
Total Attachments: 4 source=309470Assignment#page1.tif											

**CH \$40.00 11398270**

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## ASSIGNMENT - WORLDWIDE

For good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, each undersigned inventor has sold and assigned, and by these presents hereby sells and assigns, unto

NORTH CAROLINA STATE UNIVERSITY  
920 Main Campus Drive, Suite 400  
Raleigh, NC 27695-8210

its successors and assigns, the entire right, title and interest, so far as concerns the United States and the Territories and Possessions thereof and all foreign countries in and to the invention in **"DENSE, SHAPED ARTICLES CONSTRUCTED OF A REFRACTORY MATERIAL AND METHODS OF PREPARING SUCH ARTICLES"**

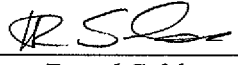
as set forth in this United States Patent Application

- executed concurrently herewith
- executed on
- Application No. 11/398,270; filed April 5, 2006
- Application claims priority from Application No. 60/668,744, filed April 6, 2005, all applications listed above being hereinafter referred to as the "application(s)";

said application for United States Letters Patent, including all divisional, renewal, substitute, continuation, nonprovisionals, continuation-in-parts, and Convention applications based in whole or in part upon said inventions or upon said applications, and any and all Letters Patent and reissues, reexaminations, and extensions of Letters Patent granted for said inventions or upon said applications and every priority right that is or may be predicated upon or arise from said inventions, said applications, and said Letters Patent; said Assignee being hereby authorized to file patent applications in any or all countries on any or all said inventions in the name of the undersigned or in the name of said Assignee or otherwise as said Assignee may deem advisable, under the International Convention or otherwise; the Commissioner of Patents and Trademarks of the United States of America being hereby authorized to issue or transfer all said Letters Patent to said Assignee in accordance herewith; this assignment being under covenant, not only that full power to make the same is had by the undersigned, but also that such assigned right is not encumbered by any grant, license, or other right theretofore given, and that the undersigned will do all acts reasonably serving to ensure that the said inventions, patent applications and Letters Patent shall be held and enjoyed by said Assignee as fully and entirely as the same could have been held and enjoyed by the undersigned if this assignment had not been made, and particularly to execute and deliver to said Assignee all lawful documents including petitions, specifications, oaths, assignments, invention disclaimers, declarations, and lawful affidavits in form and substance which may be requested by said Assignee, to furnish said Assignee with all facts relating to said inventions or the history thereof and any and all documents, photographs, models, samples or other physical exhibits which may embody said inventions, and to testify in any proceedings relating to said inventions, patent applications, and/or Letters Patent.

The undersigned hereby grant(s) an authorized representative of Assignee the power to insert in this Assignment any further identification that may be necessary or desirable to comply with the rules of the U.S. Patent and Trademark Office for recordation of this Assignment.

6/7/06  
Date

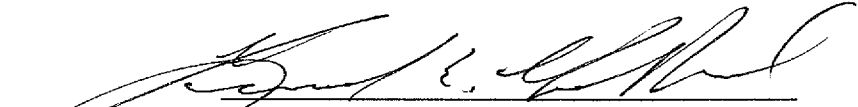
  
Raoul Schlessler

State of North Carolina )  
County of Wake )

I, Kenneth E. Holland, a Notary Public for said County and State, do hereby certify that Raoul Schlessler personally appeared before me this day and acknowledged the due execution of the foregoing instrument.


Witness my hand and official seal, this the 7<sup>th</sup> day of June, 2006.

(Official Seal)

  
Notary Public

My commission expires December 21 2009

6/7/06  
Date

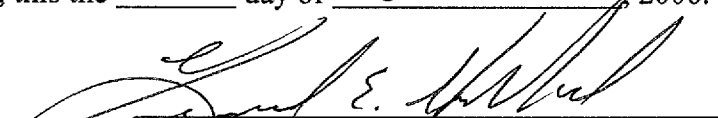
  
Rafael F. Dalmau

State of North Carolina )  
County of Wake )

I, Kenneth E. Holland, a Notary Public for said County and State, do hereby certify that Rafael F. Dalmau personally appeared before me this day and acknowledged the due execution of the foregoing instrument.

Witness my hand and official seal, this the 7<sup>th</sup> day of June, 2006.

(Official Seal)

  
Notary Public

My commission expires December 21 2009

MAY 8th, 2006  
Date

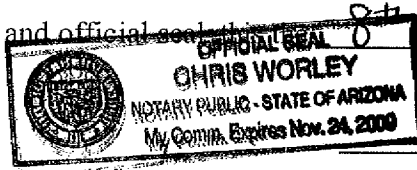
V. Noveski  
Vladimir Noveski

State of ARIZONA )  
County of MARICOPA )

I, CHRIS WORLEY, a Notary Public for said County and State, do hereby certify that Vladimir Noveski personally appeared before me this day and acknowledged the due execution of the foregoing instrument.

Witness my hand and official seal, this the 8th day of MAY, 2006.

(Official Seal)



Chris Worley  
Notary Public

My commission expires Nov 24, 2009

\_\_\_\_\_  
Date

\_\_\_\_\_  
Zlatko Sitar

State of \_\_\_\_\_ )  
County of \_\_\_\_\_ )

I, \_\_\_\_\_, a Notary Public for said County and State, do hereby certify that Zlatko Sitar personally appeared before me this day and acknowledged the due execution of the foregoing instrument.

Witness my hand and official seal, this the \_\_\_\_\_ day of \_\_\_\_\_, 2006.

(Official Seal)

\_\_\_\_\_  
Notary Public

My commission expires \_\_\_\_\_

Attorney Docket No. 035051/290006

\_\_\_\_\_  
Date

\_\_\_\_\_  
Vladimir Noveski

\_\_\_\_\_  
State of )

\_\_\_\_\_  
County of )

I, \_\_\_\_\_, a Notary Public for said County and State, do hereby certify that Vladimir Noveski personally appeared before me this day and acknowledged the due execution of the foregoing instrument.

Witness my hand and official seal, this the \_\_\_\_\_ day of \_\_\_\_\_, 2006.

(Official Seal)

\_\_\_\_\_  
Notary Public

My commission expires \_\_\_\_\_

6/7/06  
\_\_\_\_\_  
Date

*Zlatko Sitar*  
\_\_\_\_\_  
Zlatko Sitar

North Carolina  
\_\_\_\_\_  
State of )

Wake  
\_\_\_\_\_  
County of )

I, Kenneth E. Holland, a Notary Public for said County and State, do hereby certify that Zlatko Sitar personally appeared before me this day and acknowledged the due execution of the foregoing instrument.

Witness my hand and official seal, this the 7<sup>th</sup> day of June, 2006.

(Official Seal)

*Kenneth E. Holland*  
\_\_\_\_\_  
Notary Public

My commission expires December 21 2009

Attorney Docket No. 035051/309470