

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>Melik C. Demirel</td><td>12/13/2006</td></tr><tr><td>Akhlesh Lakhtakia</td><td>12/13/2006</td></tr></tbody></table>	Name	Execution Date	Melik C. Demirel	12/13/2006	Akhlesh Lakhtakia	12/13/2006	
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Melik C. Demirel	12/13/2006						
Akhlesh Lakhtakia	12/13/2006						
RECEIVING PARTY DATA							
Name:	The Penn State Research Foundation						
Street Address:	304 Old Main						
City:	University Park						
State/Country:	PENNSYLVANIA						
Postal Code:	16802-1504						
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>11639850</td></tr></tbody></table>	Property Type	Number	Application Number:	11639850			
Property Type	Number						
Application Number:	11639850						
CORRESPONDENCE DATA							
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Total Attachments: 1 source=DEMIREL_P07432US01_E-FILE_2-21-07_JDG#page1.tif							

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PATENT
REEL: 018913 FRAME: 0227

ASSIGNMENT

FOR VALUE RECEIVED, WE, **MELIK C. DEMIREL and AKHLESH LAKHTAKIA**

hereby sell, assign and transfer unto THE PENN STATE RESEARCH FOUNDATION, 304 Old Main, University Park, PA 16802-1504

as assignee, and its successors, assigns and legal representatives, the entire right, title and interest in and to all subject matter invented by us and disclosed and claimed in an application for Letters Patent of the United States of America, entitled:

**" METHOD AND SYSTEMS FOR FORMING AND USING NANOENGINEERED
SCULPTURED THIN FILMS"**

signed by us on the date set forth below; and in and to any and all divisions, reissues, continuations and extensions thereof; and in and to all corresponding applications for Letters Patent and all Convention and Treaty Rights of any kind, in all countries throughout the world, for all such subject matter.

We request that any and all patents for said inventions be issued to said assignee, its successors, assigns and legal representatives, or to such nominees as it may designate.

We agree that, when requested, we will, without charge to said assignee but at its expense, sign all papers, take all rightful oaths, and do all acts which may be necessary, desirable or convenient for securing and maintaining patents for said inventions in any and all countries and for vesting title thereto in said assignee, its successors, assigns and legal representatives or nominees.

We authorize and empower the said assignee, its successors, assigns and legal representatives or nominees, to invoke and claim for any application for patent or other form of protection for said inventions filed by it or them, the benefit of the right of priority provided by the International Convention for the Protection of Industrial Property, as amended, or by any convention which may henceforth be substituted for it, and to invoke and claim such right of priority without further written or oral authorization from us.

We hereby consent that a copy of this assignment shall be deemed a full legal and formal equivalent of any assignment, consent to file or like document which may be required in any country for any purpose and more particularly in proof of the right of the said assignee or nominee to claim the aforesaid benefit of the right of priority provided by the International Convention for the Protection of Industrial Property, as amended, or by any convention which may henceforth be substituted for it.

We covenant with said assignee, its successors, assigns and legal representatives, that the rights and property herein conveyed are free and clear of any encumbrance, and that we have full right to convey the same as herein expressed.

Signed at State College, Pennsylvania, this 13th day of December, 2006.

Witness: Carol A. Ritter 12/13/06 
Melik Demirel

Signed at State College, Pennsylvania this 13th day of December, 2006.

Witness: Carol A. Ritter 12/13/06 
Akhlesh Lakhtakia

PATENT