



ET

103229039

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

4-2706

**1. Name of conveying party(ies)**

Ali Kaan Kalkan  
Stephen J. Fonash

Additional name(s) of conveying party(ies) attached?  Yes  No

**2. Name and address of receiving party(ies)**

Name: Penn State Research Foundation

Internal Address: \_\_\_\_\_

Street Address: 304 Old Main

City: University Park

State: PA

Country: USA Zip: 16802

Additional name(s) & address(es) attached?  Yes  No

**3. Nature of conveyance/Execution Date(s):**

Execution Date(s) 04/11/06

- Assignment  Merger
- Security Agreement  Change of Name
- Joint Research Agreement
- Government Interest Assignment
- Executive Order 9424, Confirmatory License
- Other \_\_\_\_\_

**4. Application or patent number(s):**

This document is being filed together with a new application.

A. Patent Application No.(s)  
10/542,951

B. Patent No.(s)

Additional numbers attached?  Yes  No

**5. Name and address to whom correspondence concerning document should be mailed:**

Name: Jerry Cohen

Internal Address: Burns & Levinson LLP

Street Address: One Beacon Street  
30th Floor

City: Boston

State: MA Zip: 02108

Phone Number: 617-854-4000

Fax Number: \_\_\_\_\_

Email Address: jcohen@burnslev.com

**6. Total number of applications and patents involved: 1**

**7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00**

- Authorized to be charged by credit card
- Authorized to be charged to deposit account
- Enclosed
- None required (government interest not affecting title)

**8. Payment Information**

a. Credit Card Last 4 Numbers \_\_\_\_\_  
Expiration Date \_\_\_\_\_

b. Deposit Account Number 03-2410 (30626-108)

Authorized User Name Peter J. Borghetti

**9. Signature:**

Peter J. Borghetti  
Signature

April 25, 2006  
Date

Peter J. Borghetti  
Name of Person Signing

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

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, V.A. 22313-1450

105429039  
03-2410  
03-2410 (30626-108)  
40.00 DR  
04/25/2006 11:41:11  
01 FC-8021

## ASSIGNMENT

WHEREAS, we, Ali Kaan Kalkan, a resident of State College, Pennsylvania; and Stephen J. Fonash, a resident of State College, Pennsylvania (hereinafter referred to collectively as "Assignors"), have jointly made an invention entitled NANOPARTICLE COATED NANOSTRUCTURED SURFACES FOR DETECTION, CATALYSIS AND DEVICE APPLICATIONS, which claims priority to International Application No.: PCT/US04/01696, filed on January 21, 2004; which claims priority to U.S. Provisional Application No. 60/441,743, filed on January 21, 2003; and for which an application for a United States Patent was filed on July 21, 2005, under U.S. Serial No.: 10/542,951.

WHEREAS, The Penn State Research Foundation, a corporation organized and existing under the laws of the State of Pennsylvania, and having its principal place of business at 304 Old Main, University Park, Pennsylvania 16802 (hereinafter referred to as "Assignee"), is desirous of acquiring all right, title and interest in said invention.

NOW, THEREFORE, in acknowledgment of the receipt of good and valuable consideration, Assignors by these presents, do sell, assign and transfer to Assignee, all of Assignors entire right, title and interest, for the United States of America and its possessions and territories and for all foreign countries, in and to said invention, including all rights of priority created and conferred by any treaty or international convention which is available in connection with said invention, including the right to apply for patent rights, U.S. or foreign, and in any continuations, divisions, substitutes, renewals, reissues or other applications filed in the U.S. or abroad (including multinational filing arrangements of all kinds), and in any U.S. or foreign patents issued on any such applications and reissues, extensions and renewals thereof, to be held and enjoyed by Assignee, for its own use and behalf and for its successors and assigns, to the full ends of the terms or extended terms for which any Letters Patents or the like may be granted, as fully and entirely as if the same would have been held by Assignors had this sale, assignment and transfer not been made.

Assignors hereby authorize and request the Commissioner for Patents of the United States, and any official of any country or countries (including multinational filing arrangements of all kinds), whose duty it is to receive and/or examine applications for patents or similar industrial property, issue patents or other evidence or forms of industrial property protection on applications as aforesaid, to issue the same to Assignee, its successors and assigns, in accordance with the terms of this instrument.

Assignors covenant with Assignee, its successors, assigns, and legal representatives that Assignors have full right to convey the entire interest herein assigned, and that Assignors have not executed any agreement in conflict herewith and will not execute any agreement or conveyance in conflict herewith.

Assignors further covenant and agree to communicate to Assignee, its successors, legal representatives and assigns, any facts known to Assignors respecting said invention, and testify in any legal proceeding, sign all lawful papers, including, without limitation, application papers, assignments, powers of attorney, declarations, and other instruments, execute all divisional, continuing, substitute, reissue, renewal and foreign applications, make all truthful oaths, declarations and statements, and generally do everything reasonably requested of Assignors by

Assignee, or its successors or assigns to aid Assignee, its successors or assigns, to obtain, enforce and/or exploit said invention.

Executed this 11 day of April, 2006.

Ali Kaan Kalkan  
Ali Kaan Kalkan

State of Pennsylvania )  
County of Centre ) ss.

Before me appeared Ali Kaan Kalkan on this 11<sup>th</sup> day of April, 2006, who signed this Assignment document, and who acknowledges that he signed it as a free act on his behalf.

Ruth A. Harpster  
Notary Public  
My commission expires \_\_\_\_\_

COMMONWEALTH OF PENNSYLVANIA  
Notarial Seal  
Ruth A. Harpster, Notary Public  
College Twp., Centre County  
My Commission Expires July 10, 2007

SEAL

Executed this 11 day of April, 2006.

Stephen J. Fonash  
Stephen J. Fonash

State of Pennsylvania )  
County of Centre ) ss.

Before me appeared Stephen J. Fonash on this 11<sup>th</sup> day of April, 2006, who signed this Assignment document, and who acknowledges that he signed it as a free act on his behalf.

Ruth A. Harpster  
Notary Public  
My commission expires \_\_\_\_\_

COMMONWEALTH OF PENNSYLVANIA  
Notarial Seal  
Ruth A. Harpster, Notary Public  
College Twp., Centre County  
My Commission Expires July 10, 2007

SEAL