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Atty Ref/Docket No.: 2413.080US1

Patent and Trademark Office

To the Director of the U.S. Patent and Trademark Office: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

Pinar Akcora, Sanat K. Kumar

Additional name(s) of conveying party(ies) attached?

[] Yes [X] No

3. Nature of conveyance:

[X] Assignment [] Merger
[] Security Agreement [] Change of Name
[] Other

Execution Date: June 6, 2010, June 15, 2010

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

Name: The Trustees of Columbia University in the City of New York

Street Address: 535 West 116th Street
412 Low Memorial LibraryCity: New York State: New York Zip: 10027
Country: United States of America

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

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

If this document is being filed together with a new application, the execution date of the application is:

A. Patent Application No.(s)

Serial No. 12/746,865, filed June 8, 2010

B. Patent No.(s)

Additional numbers attached? [] Yes [X] No

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

Name: Geoffrey K. Cooper

Address:

Schwegman, Lundberg & Woessner, P.A.
P.O. Box 2938
Minneapolis, MN 55402-09386. Total number of applications and patents involved: 17. Total fee (37 CFR 3.41): \$ 40.00

[] Enclosed

[X] Authorized to be charged to deposit account
19-0743

8. Please charge any additional fees or credit any over payments to our Deposit Account No.: 19-0743

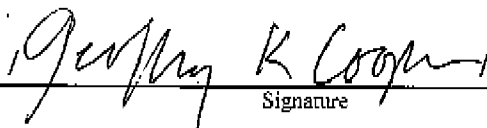
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9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Geoffrey K. Cooper/Reg. No. 51,266

Name of Person Signing



Signature

July 27, 2010

Date

Total number of pages including cover sheet: 5

Mail documents to be recorded with required cover sheet information to:

Commissioner of Patents and Trademarks
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Attorney Docket No. 2413.080US1
Client Ref. No. IRM08-041/2413.080US1/JS

ASSIGNMENT

WHEREAS, We, Pinar Akcora, residing at 415 W. 144th St #7, New York, NY 10031, and Sanat K. Kumar, residing at 500 W. 120th Street Mudd 801, New York, NY 10027, made certain new and useful inventions and improvements which are described in an application for U.S. Letters Patent on June 8, 2010, which application was assigned U.S. patent application serial number 12/746,865, and is entitled ANISOTROPIC SELF-ASSEMBLY OF NANOPARTICLES IN COMPOSITES:

FOR GOOD AND VALUABLE CONSIDERATION, the receipt, sufficiency and adequacy of which are hereby acknowledged, the undersigned do hereby:

SELL, ASSIGN AND TRANSFER to The Trustees of Columbia University in the City of New York (the "Assignee"), a corporation of the State of New York, having a place of business at 535 West 116th Street, 412 Low Memorial Library, New York, New York 10027, the entire right, title and interest for the United States and all foreign countries in and to: any and all inventions and improvements which are disclosed in the identified application for U.S. Letters Patent, and which may be further identified below; such application and all divisional, continuing, substitute, renewal, reissue and all other applications for patent which have been or shall be filed in the United States (including all provisional and non-provisional applications), and in all foreign countries on any of such inventions and/or improvements (including any applications for utility models); all original and reissued patents which have been or shall be issued in the United States and all foreign countries on such inventions and/or improvements; and specifically including the right to file foreign applications under the provisions of any convention or treaty and to claim priority based on the identified application;

AUTHORIZE AND REQUEST that any attorney associated with U.S. PTO Customer No. 68836 may (directly or through his/her designee) delete, insert, or alter any information identifying this application, or any related application, below, after execution of this Assignment;

Additional Application Information

U.S. Provisional Application Serial No. 61/014,350, filed on December 17, 2007.

U.S. Provisional Application Serial No. 61/019,516, filed on January 7, 2008.

U.S. Provisional Application Serial No. 61/128,216, filed on May 20, 2008.

PCT Application Serial No. PCT/US2008/013769, filed on December 16, 2008.

ASSIGNMENT

Client Ref. No. IRM08-041/2+13.080US1/JS

Assignors: Pinar Akcira et al.

Title: ANISOTROPIC SELF-ASSEMBLY OF NANOPARTICLES IN COMPOSITES

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Docket No: 2413.080US1

Serial Number: 12/746,865

AUTHORIZE AND REQUEST the issuing authority to issue any and all United States and foreign patents granted on such improvements to the Assignee;

WARRANT AND COVENANT that no assignment, grant, mortgage, license or other agreement affecting the rights and/or property herein conveyed has been or will be made to others by the undersigned, and that the full right to convey the same as herein expressed is possessed by the undersigned;

COVENANT, that when requested and without compensation, but at the expense of the Assignee, in order to carry out in good faith the intent and purpose of this Assignment, the undersigned will (1) execute all provisional, non-provisional, divisional, continuing, substitute, renewal, reissue, and all other patent applications on any and all such improvements; (2) execute all rightful oaths, declarations, assignments, powers of attorney and other papers; (3) communicate to the Assignee all facts known to the undersigned relating to such improvements and the history thereof; (4) cooperate with the Assignee in any interference, reexamination, reissue, opposition, dispute, or litigation involving any of the applications or patents for such improvements; and (5) take such further actions as the Assignee shall reasonably consider necessary or desirable for vesting title to such improvements in the Assignee, or for securing, maintaining and enforcing proper patent protection for such improvements;

THIS AGREEMENT IS TO BE BINDING on the heirs, assigns, representatives and successors of the undersigned, and is to extend to the benefit of the successors, assigns and nominees of the Assignee.

AGREED as of the date of my signature below:

06/15/2010 14:17 5739844940

MIZZOU CHE

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ASSIGNMENT

Client Ref. No. TRM08-041/2413,080US1/25

Assignor: Pinar Akcira et al.

Title: ANISOTROPIC SELF-ASSEMBLY OF NANOPARTICLES IN COMPOSITES

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Docket No: 2413,080US1

Serial Number: 12/746,865

IN TESTIMONY WHEREOF, I have hereunto set my hand this 15 day ofJune, 2010P. Akcira

Pinar Akcira

STATE OF _____)

)ss

COUNTY OF _____)

On this _____ day of _____, 20____ before me personally appeared Pinar Akcira, to me known and known to me to be the person described in and who executed the foregoing instrument, and he/she duly acknowledged to me that he/she executed the same for the uses and purposes therein set forth.

[SEAL]

Notary Public

ASSIGNMENT

Client Ref. No. ERM08-041/2413.080US/JS

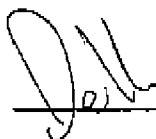
Assignors: Pinar Akcora et al.

Title: ANISOTROPIC SELF-ASSEMBLY OF NANOPARTICLES IN COMPOSITES

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Docket No: 2413.080US1

Serial Number: 127746,865

IN TESTIMONY WHEREOF, I have hereunto set my hand this 6 day ofJune, 20 10.

Sanat K. Kumar

STATE OF New York)

)ss

COUNTY OF _____)

On this _____ day of _____, 20____ before me personally appeared Sanat K. Kumar, to me known and known to me to be the person described in and who executed the foregoing instrument, and he/she duly acknowledged to me that he/she executed the same for the uses and purposes therein set forth.

[SEAL]

Notary Public