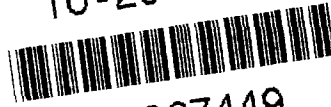


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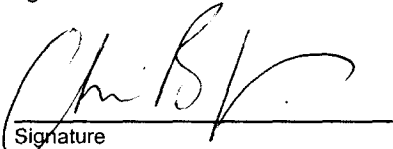
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Commissioner for Patents: Please record this original document(s) or copy(ies).	
1. Name of conveying party(ies): Michael Tsapatsis, Hae-Kwon Jeong and Sankar Nair Additional name(s) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	2. Name and address of receiving party(ies): University of Massachusetts One Beacon Street, 26th Floor Boston, Massachusetts 02108 United States of America Additional names/addresses attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
3. Nature of conveyance: <input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name <input type="checkbox"/> Other: Execution Date: 01/30/03; 01/30/03; 02/05/03	
4. Application number(s) or patent number(s): If this document is being filed with a new application, the execution date of the application is: A. Patent Application No(s).: Not Yet Assigned B: Patent No(s).: Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
5. Name/address of party to whom correspondence concerning document should be mailed: CHRIS C. BOWLEY Fish & Richardson P.C. 225 Franklin Street Boston, MA 02110-2804	6. Total number of applications/patents involved: 1 7. Total fee (37 CFR §3.41): \$40 <input checked="" type="checkbox"/> Enclosed <input type="checkbox"/> Authorized to charge Deposit Account. 8. Deposit Account No.: 06-1050 Please apply any additional charges, or any credits, to our Deposit Account No. 06-1050.
DO NOT USE THIS SPACE	
9. Statement and Signature: <i>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.</i> Chris C. Bowley Reg. No. 55,016 Name of Person Signing  Signature 10/19/2004 Date	
Total number of pages including coversheet, attachments and document: 5	

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PATENT
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ASSIGNMENT

For valuable consideration, we, MICHAEL TSAPATSIS of Amherst, MA, HAE-KWON JEONG of Amherst, MA, and SANKAR NAIR of Amherst, MA, hereby assign to University of Massachusetts, a Corporation of Massachusetts having a place of business at One Beacon Street, 26th Floor, Boston, Massachusetts 02108, United States of America; and its successors and assigns (collectively hereinafter called "the Assignee"), the entire right, title and interest throughout the world in the inventions and improvements which are subject of an application for United States Patent signed by us, entitled LAYERED SILICATE MATERIAL AND APPLICATIONS..., filed January 31, 2003, and assigned U.S. Serial Number 10/355,951, and we authorize and request the attorneys appointed in said application to hereafter complete this assignment by inserting above the filing date and serial number of said application when known; this assignment including said application, any and all United States and foreign patents, utility models, and design registrations granted for any of said inventions or improvements, and the right to claim priority based on the filing date of said application under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other treaties of like purposes; and we authorize the Assignee to apply in all countries in our name or in its own name for patents, utility models, design registrations and like rights of exclusion and for inventors' certificates for said inventions and improvements; and we agree for ourselves and our respective heirs, legal representatives and assigns, without further compensation to perform such lawful acts and to sign such further applications, assignments, Preliminary Statements and other lawful documents as the Assignee may reasonably request to effectuate fully this assignment.

IN WITNESS WHEREOF, I hereto set my hand and seal at Amherst, MA,
this 30th day of January, 2003.
Michael Tsapatsis L.S.
MICHAEL TSAPATSIS

State of MA :
: ss.
County of Hampshire :

Before me this 30th day of January, 2003, personally appeared
MICHAEL TSAPATSIS known to me to be the person whose name is subscribed to the
foregoing Assignment and acknowledged that he executed the same as his free act and deed for
the purposes therein contained.

Lyne D. Laliberde
Notary Public Lyne D. Laliberde
My Commission Expires: 12/30/05

[Notary's Seal Here]

IN WITNESS WHEREOF, I hereto set my hand and seal at Amherst, MA,
this 30th day of January, 2003.
HAE-KWON JEONG L.S.

State of MA :
: ss.
County of Hampshire :

Before me this 30th day of January, 2003, personally appeared
HAE-KWON JEONG known to me to be the person whose name is subscribed to the foregoing
Assignment and acknowledged that he executed the same as his free act and deed for the
purposes therein contained.

Lyne D. Labbette
Notary Public Lyne D. Labbette
My Commission Expires: 12/30/05

[Notary's Seal Here]

IN WITNESS WHEREOF, I hereto set my hand and seal at GAITHERSBURG, MD
this 5th day of FEBRUARY, 2003.

SANKAR NAIR *Sankar Nair* L.S.

State of Maryland :
: ss.
County of Montgomery:

Before me this 5th day of February, 2003, personally appeared
SANKAR NAIR known to me to be the person whose name is subscribed to the foregoing
Assignment and acknowledged that he executed the same as his free act and deed for the
purposes therein contained.

Joan B. Loffman

Notary Public
My Commission Expires:

[Notary's Seal Here]

JOAN B. LOFFMAN
NOTARY PUBLIC STATE OF MARYLAND
My Commission Expires June 1, 2004

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