01-04-2002 ER SHEET DEPARTMENT OF COMMERCE **FORM PTO-1595 U.S. Patent and Trademark Office** (Rev. 6-93) 101933418 OMB No. 0651-0011 (exp. 4/94) To the Commissioner for Patents: Please record the attached original documents or copy thereof. Name and address of receiving party(ies) Name of conveying party(ies): Nitin Padture, Juthamas Jitcharoen **University of Connecticut** Name: Additional name(s) of conveying party(ies) attached? [] Yes [X] No Internal Address: 3. Nature of conveyance: [X] Assignment [] Merger Street Address: 263 Farmington Avenue [] Security Agreement [] Change of Name **Dowling North 2 Farmington, CT 06030-0868** [] Other ___ Execution Date: 05/16/01, 04/19/01 Additional name(s) & addresses(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) B. Patent No.(s) 09/062,870 Additional numbers attached? [] Yes [X] No Name and address of party to whom correspondence 6. Total number of applications and patents involved: [1] Concerning document should be mailed: Timothy J. Oyer 7. Total fee (37 CFR 3.41) \$ 40.00 Address: WOLF, GREENFIELD & SACKS, P.C. Federal Reserve Plaza [X] Enclosed 600 Atlantic Avenue [] Authorized to be charged to deposit account Boston, MA 02210 [X] The Commissioner is authorized to charge any deficiencies or credit overpayment: 8. Deposit Account No: 23/2825 00000076 09062870 3/2002 DBYRNE 40.00 DP C:581 DO NOT USE THIS SPACE 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. Timothy J. Oyer, Reg. No. 36,628 Name of Person Signing ign/ature Date

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

Box Assignment

Total number of pages including cover sheet, attachments, and document: [

Commissioner of Patents & Trademarks, Washington, D.C. 20231

ASSIGNMENT

In consideration of One Dollar (\$1.00) and other good and valuable consideration, the receipt of which is hereby acknowledged, we, the undersigned Nitin P. Padture, 871 Storrs Road, Storrs, CT 06268 and Juthamas Jitcharoen, 11 Foster Drive, Willimantic CT 06226, hereby

Sell, assign and transfer to **University of Connecticut**, a CT corporation having a place of business at 263 Farmington Avenue, Dowling North-2, Farmington, CT 06030-0868, its successors, assigns and legal representatives, all hereinafter referred to as the Assignee, our entire right, title and interest for the United States and all foreign countries, in and to any and all inventions which are disclosed in the application for United States Letters Patent filed in the United States Patent and Trademark Office on April 20, 1998, under Serial No. 09/062,870 and entitled **FUNCTIONALLY-GRADED MATERIALS AND THE ENGINEERING OF TRIBOLOGICAL RESISTANCE AT SURFACES**, and in and to said application and all divisional, continuing, substitute, renewal, reissue and all other applications for Letters Patent which have been or shall be filed in the United States and all foreign countries on any of said inventions; and in and to all original and reissued patents which have been or shall be issued in the United States and all foreign countries on said inventions including the right to apply for patent rights in each foreign country and all rights to priority.

We agree that said Assignee may apply for and receive Letters Patent for said inventions in its own name; and when requested, without charge to but at the expense of said Assignee, agree to carry out in good faith the intent and purpose of this assignment by executing all divisional, continuing, substitute, renewal, reissue, and all other patent applications on any and all said inventions, by executing all rightful oaths, assignments, powers of attorney and other papers, by communicating to said Assignee all facts known to us relating to said inventions and the history thereof, and generally by doing everything possible which said Assignee shall consider desirable for aiding in securing and maintaining proper patent protection for said inventions and for vesting title to said inventions and all applications for patents and all patents on said inventions, in said Assignee.

We hereby request the Honorable Commissioner of Patents and Trademarks to issue said Letters Patent to said Assignee.

We covenant with said Assignee that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by us, and that full right to convey the same as herein expressed is possessed by us.

514783.1

Dated: May 16, 2001 Nitin I	tn P. Pedture P. Padture
STATE OF CALIFORNIA : COUNTY OF SANTA BARBARA	_:
Subscribed and sworn to before me this 16 TH	day of MAY , 2001
SEAL Charles Q. Sauch Notary Public	
CHARLES R. BAIRD Commission # 1267342 Notary Public — Cattornia Santa Barbara County My Comm. Expires Jul 3, 2004	My Commission Expires July 3, 2004
Dated: Juthai	mas Jitcharoen
STATE OF: COUNTY OF:	_:
Subscribed and sworn to before me this	_ day of
SEALNotary Public	

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514783.1

RECORDED: 12/31/2001

Dated:
Nitin P. Padture
STATE OF: COUNTY OF:
Subscribed and sworn to before me this day of
SEALNotary Public My Commission Expires
Dated: 19 2001 Juthamas Atchargen
STATE OF :: COUNTY OF THAILAND ::
Subscribed and sworn to before me this day of
SEALNotary Public

PATENT REEL: 012411 FRAME: 0968

My Commission Expires _____